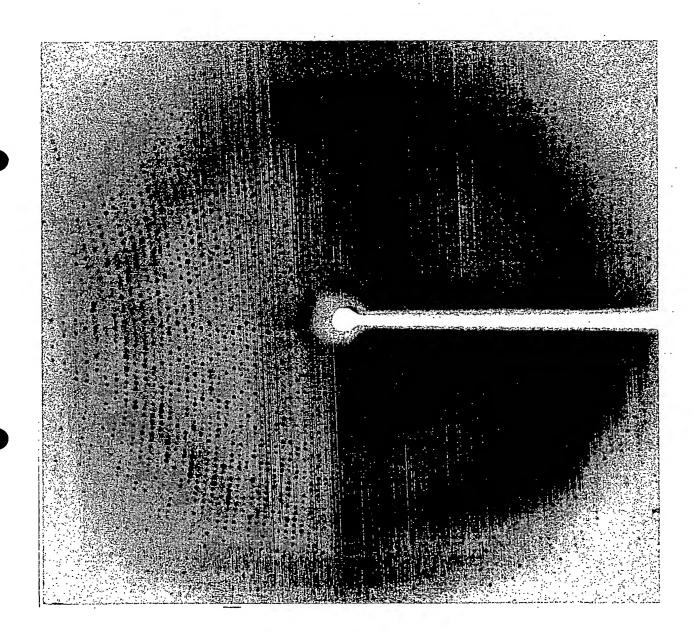
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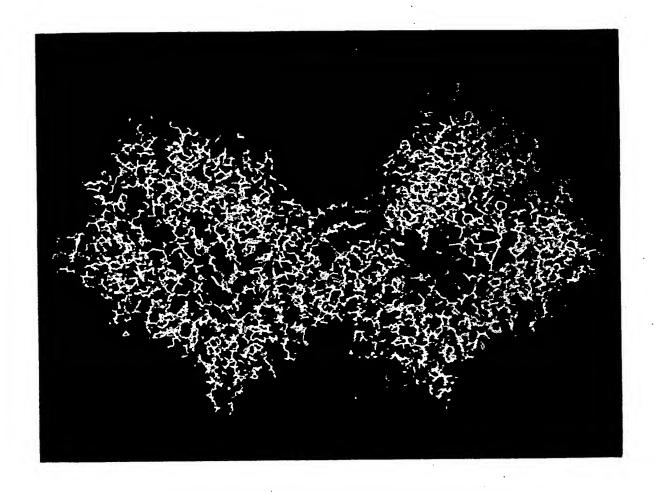
# FIG. 1



**FIG. 2** 



**FIG.** 3



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FIG. 4-1

	T	hree-	-dimer	nsional	structural	coordin	ate of o	dipeptidyl	peptidase	IA
ATOM	1	СВ	ASP	38	44. 493	31.885	58. 927	1.00 42.	46 A	С
ATOM	2	CG	ASP	38	44. 146	32. 095	57. 467			č
ATOM	3	0D1	ASP	38	43.664	33. 198	57. 133			ŏ
ATOM	4		ASP	38	44. 360	31. 171	56. 655			Ö
ATOM	5	C	ASP	38	45.876	29.805	58.634			Č
ATOM	6	0	ASP	38	46.980	30.327	58.778			0
ATOM	7	N	ASP	38	44. 758	30.264	60.778			N
ATOM	8	CA	ASP	38	44.639	30.404	59.296			C
ATOM	9	N	SER	39	45.679	28.711	57.905	1.00 40.	69 A	N
ATOM	10	CA	SER	39	46. 775	28.013	57. 241	1.00 39.	98 A	C
ATOM	11	CB	SER	39	46. 584	26.501	57.380		43 A	C
ATOM	12	0G	SER	39	45.410	26.079	56.703	1.00 41.	11 A	0
ATOM	13	C	SER	39	46.960	28. 343	55.763	1.00 39.		C
ATOM	14	0	SER	39	47.870	27.813	55. 123	1.00 39.		0
ATOM	15	N	ARG	40	46.093	29. 190	55. 217	1.00 38.		N
ATOM	16	CA	ARG	40	46. 194	29. 575	53.810	1.00 37.		C
ATOM	17	CB	ARG	40	45.082	30. 558	53. 439	1.00 36.		C
ATOM	18	CG	ARG	40	43. 683	29. 984	53.404	1.00 35.		· C
ATOM	19	CD	ARG	40	42.688	31.098	53. 137	1.00 34.		C
ATOM	20	NE CZ	ARG	40	42.774	32. 134	54. 161	1.00 35.		N
ATOM ATOM	21 22	CZ NH1	ARG ARG	40	42. 097	33. 276	54. 125	1.00 35.		C
ATOM	23		ARG	40 40	41. 280	33.528	53.111	1.00 35.		N
ATOM	23 24	C	ARG	40	42. 239 47. 530	34. 167 30. 251	55. 097 53. 531	1.00 34.		N
ATOM	25	Ö	ARG	40	48. 100	30. 231	54. 407	1.00 35. 1.00 34.		C
ATOM	26	N	LYS	41	48. 031	30. 100	52. 310	1.00 34.		0 N
ATOM	27	CA	LYS	41	49. 286	30. 749	51. 937	1.00 33.		C
ATOM	28	CB	LYS	41	49. 705	30. 338	50. 525	1.00 34.		Č
ATOM	29	CG	LYS	41	48. 684	30.719	49.467	1.00 38.		č
ATOM	30	CD	LYS	41	49. 026	30. 151	48. 096	1.00 42.		č
ATOM	31	CE	LYS	41	47. 805	30. 201	47. 173	1.00 45.		č
ATOM	32	NZ	LYS	41	48.070	29.686	45.791	1.00 47.		Ň
ATOM	33	C	LYS	41	49.038	32.257	51.957	1.00 33.		C
ATOM	34	0	LYS	41	47.891	32.715	51.981	1.00 33.		0
ATOM		N	THR	42	50.110	33.032	51.954	1.00 31.	47 A	N
ATOM	36	CA	THR	42	49.967	34.479	51.937	1.00 30.		C
ATOM	37	CB	THR	42	50.860	35. 139	53.000	1.00 31.		C
ATOM	38	0G1	THR	42	52. 234	34. 843	52. 725	1.00 30.		0
ATOM	39		THR	42	50. 501	34.622	54.386	1.00 30.		C
ATOM	40	C	THR	42	50. 389	34. 971	50. 558	1.00 28.		C
ATOM	41	0	THR	42	50. 977	34. 220	49. 782	1.00 27.		0
ATOM	42	N	TYR	43	50. 058	36. 217	50. 234	1.00 27.		N
ATOM	43	CA	TYR	43	50.465	36. 782	48. 954	1.00 25.		C
ATOM	44 45	CB CG	TYR TYR	43	49.615	38.006	48. 623	1.00 26.0		C
ATOM ATOM	45 46		TYR	43 43	49.922	38. 625	47. 280	1.00 26.		C
ATOM	40 47		TYR	43 43	50. 977 51. 253	39. 527 40. 113	47. 130 45. 895	1.00 26.0 1.00 27.0		C
ATOM	48		TYR	43	49. 152	38. 315	46. 158	1.00 27.1		C C
ATOM	40	QD L	1110	TU	43.106	00.010	40.100	1.00 20.4	40 A	C

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ATOM	49	CE2	TYR	43	49.424	38. 891	44.919	1.00 25.89	Α	C
ATOM	50		TYR	43	50.473	39.790	44.796	1.00 25.91	Α	C
ATOM	51	OH	TYR	43	50.741	40.370	43.579	1.00 25.09	A	0
ATOM	52	C	TYR	43	51.933	37.165	49.160	1.00 24.97	Α	C
ATOM	53	Ō	TYR	43	52.251	38.049	49.955	1.00 23.33	Α	0
ATOM	54	N	THR	44	52.818	36.482	48.444	1.0024.06	Ą	N
ATOM	55	CA	THR	44	54.255	36.685	48.580	1.00 25.90	Α	C
ATOM	56	CB	THR	44	54.960	35. 336	48.547	1.00 25.86	Α	C
ATOM	57		THR	44	54.696	34.709	47. 285	1.00 28.12	A	0
ATOM	58	CG2	THR	44	54.439	34. 436	49.655	1.00 22.61	A	C
ATOM	59	C	THR	44	54.917	37. 576	47.530	1.00 27.35	A	C
ATOM	60	0	THR	44	54.296	37. 956	46.535	1.00 29.11	A	0
ATOM	61	N	LEU	45	56. 191	37. 894	47. 765	1.00 27.39	A	N
ATOM	62	CA	LEU	45	56.978	38. 722	46.853	1.00 26.43	A	C
ATOM	63	CB	LEU	45	58. 377	38. 954	47.425	1.00 26.07	A	C
ATOM	64	CG	LEU	45	59. 310	39.860	46.612	1.00 26.21	A	C
ATOM	65	CD1	LEU	45	58. 734	41.263	46.517	1.00 25.53	A	C
ATOM	66	CD2	LEU	45	60.672	39.896	47. 266	1.00 24.37	A	C
ATOM	67	C	LEU	45	57.088	38.069	45. 473	1.00 27.00	A	C
ATOM	68	0	LEU	45	56.939	38. 740	44. 449	1.00 27.84	A	0
ATOM	69	N	THR	46	57. 354	36.766	45. 445	1.00 26.70	A	N.
ATOM	70	CA	THR	46	57. 448	36.038	44. 182	1.00 26.95	A	C
ATOM	71	CB	THR	46	57. 838	34. 559	44. 407	1.00 26.87	A	C
ATOM	72	0G1	THR	46	59. 150	34. 495	44.966	1.00 31.74	A	0
ATOM	73	CG2	THR	. 46	57. 833	33. 793	43. 110	1.00 28.08	A	C
ATOM	74	C	THR	46	56.076	36.091	43. 517	1.00 26.96	A	C
ATOM	75	0	THR	46	55.965	36. 094	42. 289	1.00 25.36	A	O N
ATOM	76	N	ASP	47	55.035	36. 126	44. 346	1.00 27.72 1.00 29.74	A	C
ATOM	77	CA	ASP	47	53.659	36. 199	43. 858	1.00 29.74	A	C
ATOM	78	CB	ASP	47	52.670	36. 173 34. 769	45. 026 45. 430	1.00 30.90	A A	C
ATOM	79	CG	ASP	47	52. 289	34. 709	46. 553	1.00 30.02	A	Ö
ATOM	80	OD1	ASP	47	51.778	33. 845	40. 553		A	Ö
ATOM	81	OD2		47	52. 490 52. 477	37. 482	43.073	1.00 28.87	A	Č
ATOM	82	C	ASP	47	53. 477 52. 918	37. 478	43.073	1.00 29.50	A	Õ
ATOM	83	0	ASP TYR	47 48	53. 945	38. 581	43.648	1.00 28.54	A	N
ATOM	84	N			53. 859	39. 878	42. 994	1.00 29.04	A	Ċ
ATOM	85 86	CA	TYR TYR	48 48	54. 191	40. 991	43. 996	1.00 27.50	Ä	č
ATOM	86 87	CB CG	TYR	48 48	54. 448	42. 333	43. 354	1.00 25.16	Ä	Č
ATOM	88		TYR	48	53. 460	42. 971	42.609	1.00 23.19	A	Č
ATOM	89		TYR	48	53. 703	44. 184	41.982	1.00 24.84	Ä	Č
ATOM ATOM	90		TYR	48	55. 694	42. 946	43. 461	1.00 25.89	A	č
ATOM	91		TYR	48	55. 956	44. 165	42. 838	1.00 26.76	Ā	C C C
ATOM	92	CZ	TYR	48	54. 955	44. 779	42. 096	1.00 27.28	Ä	Č
ATOM	93	OH	TYR	48	55. 208	45. 977	41.463	1.00 25.97	Ä	Ō
ATOM	94	C	TYR	48	54. 820	39. 953	41. 796	1.00 28.80	A	C
ATOM	95	ŏ	TYR	48	54. 445	40. 401	40.714	1.00 28.24	A	0
ATOM	96	Ň	LEU	49	56.054	39. 499	41.988	1.00 29.41	Α	N
ATOM	97	CA	LEU	49	57.046	39. 552	40.918	1.00 30.39	Α	C

				(Continued)
			F I G. 4 - 3	
ATOM	98 CB LEU	49	58. 455 39. 318 41. 481 1. 00 27. 73 A	C
ATOM	99 CG LEU	49	58. 988 40. 473 42. 336 1. 00 28. 28 A	C
ATOM	100 CD1 LEU	49	60. 438 40. 223 42. 711 1. 00 26. 99 A	C
ATOM	101 CD2 LEU	49	58. 860 41. 773 41. 555 1. 00 26. 02 A	C
ATOM	102 C LEU	49	56. 804 38. 606 39. 752 1. 00 30. 71 A	C
ATOM	103 0 LEU	49	57. 147 38. 919 38. 614 1. 00 30. 14 A 56. 198 37. 459 40. 024 1. 00 32. 51 A	0
ATOM	104 N LYS	50		N
ATOM	105 CA LYS	50	55. 959 36. 491 38. 971 1. 00 33. 54 A 56. 289 35. 098 39. 485 1. 00 33. 30 A	C
ATOM	106 CB LYS	50		C
ATOM ATOM	107 CG LYS 108 CD LYS	50 50	57. 763 34. 940 39. 790 1. 00 33. 89 A 58. 591 35. 213 38. 545 1. 00 35. 19 A 60. 071 34. 945 38. 778 1. 00 38. 12 A	C C C
ATOM ATOM	109 CE LYS 110 NZ LYS 111 C LYS	50 50 50	60. 071 34. 945 38. 778 1. 00 38. 12 A 60. 859 35. 028 37. 515 1. 00 39. 27 A 54. 572 36. 517 38. 361 1. 00 34. 93 A	N C
ATOM ATOM ATOM	111 C LYS 112 O LYS 113 N ASN	50 51	54. 272 35. 719 37. 478 1. 00 35. 13 A 53. 731 37. 436 38. 822 1. 00 36. 66 A	O N
ATOM	114 CA ASN	51	52. 379 37. 569 38. 294 1. 00 38. 39 A	C
ATOM	115 CB ASN	51	52. 428 37. 859 36. 791 1. 00 41. 61 A	C
ATOM	116 CG ASN	51	53. 407 38. 968 36. 436 1. 00 44. 75 A	C
ATOM	117 OD1 ASN	51	53. 212 40. 131 36. 801 1. 00 46. 38 A	0
ATOM	118 ND2 ASN	51	54. 470 38. 609 35. 717 1. 00 45. 80 A	N
ATOM	119 C ASN	51	51. 529 36. 324 38. 517 1. 00 38. 21 A	C
ATOM	120 O ASN	51	50. 708 35. 976 37. 674 1. 00 40. 60 A	0
ATOM	121 N THR	52	51. 720 35. 647 39. 641 1. 00 36. 74 A	N
ATOM ATOM	122 CA THR 123 CB THR	52 52	50. 942 34. 451 39. 926 1. 00 35. 44 A 51. 297 33. 888 41. 298 1. 00 35. 57 A 52. 646 33. 415 41. 272 1. 00 38. 62 A	C C O
ATOM ATOM ATOM	124 OG1 THR 125 CG2 THR 126 C THR	52 52 52	52. 646 33. 415 41. 272 1. 00 38. 62 A 50. 367 32. 750 41. 666 1. 00 35. 25 A 49. 431 34. 686 39. 869 1. 00 35. 17 A	C C
ATOM.	127 O THR	52	48. 699 33. 889 39. 276 1. 00 36. 44 A	O
ATOM.	128 N TYR	53	48. 962 35. 765 40. 487 1. 00 33. 55 A	N
ATOM	129 CA TYR	53	47. 535 36. 081 40. 487 1. 00 33. 46	C
ATOM	130 CB TYR	53	47. 084 36. 407 41. 903 1. 00 32. 64	C
ATOM ATOM	131 CG TYR 132 CD1 TYR	53 53	47. 399 35. 293 42. 861 1. 00 33. 83 A 48. 341 35. 462 43. 872 1. 00 34. 11 A	C
ATOM ATOM	133 CE1 TYR 134 CD2 TYR	53 53	48. 657 34. 425 44. 741 1. 00 34. 24 A 46. 775 34. 050 42. 741 1. 00 36. 17 A	C C C
ATOM	135 CE2 TYR	53	47. 084 33. 001 43. 605 1. 00 35. 64 A	C
ATOM	136 CZ TYR	53	48. 026 33. 199 44. 601 1. 00 35. 74 A	C
ATOM ATOM	137 OH TYR 138 C TYR 139 O TYR	53 53 53	48. 343 32. 170 45. 453 1. 00 35. 79 A 47. 266 37. 248 39. 548 1. 00 33. 40 A 47. 486 38. 404 39. 895 1. 00 33. 56 A	0 C 0
ATOM ATOM ATOM	139 O TYR 140 N ARG 141 CA ARG	54 54	46. 773 36. 929 38. 355 1. 00 34. 36 A 46. 526 37. 933 37. 327 1. 00 34. 87 A	N C
ATOM	142 CB ARG	54	46. 993 37. 387 35. 972 1. 00 35. 72 A	C
ATOM	143 CG ARG	54	46. 887 38. 373 34. 821 1. 00 39. 96 A	C
ATOM	144 CD ARG	54	47. 675 37. 880 33. 613 1. 00 43. 22 A	C
ATOM	145 NE ARG	54	47. 651 38. 831 32. 506 1. 00 46. 70 A	N
ATOM	146 CZ ARG	54	46. 587 39. 068 31. 744 1. 00 49. 10 A	С

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1.		<b>u</b> •			-

ATOM	147	NH1	ARG	54	45.451	38.416	31.968	1.00 49.25	Α	N
ATOM	148		ARG	54	46.657	39.957	30.757	1.00 50.00	Α	N
ATOM	149		ARG	54	45.100	38.445	37. 202	1.00 33.84	Α	C
ATOM	150	ŏ	ARG	54	44.141	37.687	37. 314	1.00 34.59	Α	0
ATOM	151		LEU	55	44.982	39.748	36.966	1.00 33.05	Α	N
ATOM	152		LEU	55	43.693	40.402	36.788	1.00 32.40	Α	C
ATOM	153		LEU	55	43. 792	41.892	37.123	1.00 29.74	Α	C
ATOM	154		LEU	55	44.042	42. 344	38. 557	1.00 32.26	Α	C
ATOM	155		LEU	55	44. 245	43.847	38. 571	1.00 31.83	Α	C
ATOM	156	CD2		55	42.857	41.967	39.448	1.00 33.66	Α	C
ATOM	157		LEU	55	43. 298	40. 271	35. 322	1.00 32.61	Α	C
ATOM	158	0	LEU	55	44.004	40.769	34. 441	1.00 33.62	Α	0
	159	N	LYS	56	42.189	39. 593	35. 050	1.00 31.32	Α	N
ATOM		CA	LYS	56	41.733	39. 462	33. 673	1.00 31.42	Α	C
ATOM	160	CB	LYS	56	40.584	38. 453	33. 564	1.00 33.54	A	C
ATOM	161	CG	LYS	56	40.978	36. 997	33. 733	1.00 34.84	A	C
ATOM	162		LYS	56	41.746	36. 484	32. 530	1.00 38.85	A	C
ATOM	163	CD	LYS	56	42.120	35. 009	32.698	1.00 40.95	Ä	C
ATOM	164	CE	LYS	56	43.117	34. 537	31.685	1.00 43.33	Ä	N
ATOM	165	NZ	LYS	56	41.240	40.844	33. 252	1.00 30.03	Ä	C
ATOM	166	C		56	40.839	41.648	34. 088	1.00 28.24	A	Ŏ
ATOM	167	0 N	LYS	57	40. 833	41.120	31. 956	1.00 30.20	A	Ň
ATOM	168	N	LEU	57	40.836	42. 404	31. 437	1.00 29.43	A	Ċ
ATOM	169	CA	LEU		42.022	43. 233	30. 934	1.00 30.04	Ä	č
ATOM	170	CB	LEU	57 57	43. 230	43. 474	31. 844	1.00 30.04	Ä	č
ATOM	171	CG	LEU	57 57	43. 230	44. 524	31. 194	1.00 29.05	Ä	č
ATOM	172		LEU	57 57	44. 123	43. 949	33. 230	1.00 23.00	A	č
ATOM	173		LEU	57 57	39. 911	43. 343	30. 271	1.00 28.11	A	č
ATOM	174	C	LEU	57 57	39. 668	40. 980	29. 914	1.00 28.60	A	ő
ATOM	175	0	LEU	57		43. 196	29. 676	1.00 26.69	, A	Ŋ
ATOM	176	N	TYR	58	39. 394	43. 150	28. 518	1.00 25.82	Â	Ċ
ATOM	177	CA	TYR	58 50	38. 530		28. 934	1.00 25.52	A	č
ATOM	178	CB	TYR	58	37.071	42. 890 42. 420	27. 797	1.00 25.31	A	č
ATOM	179	CG	TYR	58	36. 195		27. 514	1.00 26.92	A	č
ATOM	180	CD1	TYR	58	36.051	41.062 40.631	26. 429	1.00 26.32	A	č
ATOM	181	CE1	TYR	58	35. 294		26. 965	1.00 25.26	A	č
ATOM	182	CD2		58	35.557	43. 333	25. 882	1.00 26.13	A	č
ATOM	183		TYR	58	34. 803	42.911		1.00 25.74	A	Č
ATOM	184	CZ	TYR	58	34.675	41.564	25. 619	1.00 23.14	A	0
ATOM	185	OH	TYR	58	33. 928	41. 160	24. 541	1.00 24.32	A	C
ATOM	186	C	TYR	58 50	38. 681	44. 288	27. 647	1.00 24.93	Ä	0
ATOM	187	0	TYR	58	37. 837	45. 176	27. 680	1.00 24.08	A	N
ATOM	188	N	SER	59	39.763	44. 338	26.876	1.00 24.03	A	C
ATOM	189	CA	SER	59 50	40.037	45. 470	25. 997	1.00 24.31	Â	C
ATOM	190	CB	SER	59 50	41.547	45.657	25. 817	1.00 24.38	A	Õ
ATOM	191	OG	SER	59 50	42.187	45. 931	27.051		A	C
ATOM	192		SER	59 50	39.405	45. 294	24.628		A	0
ATOM	193		SER	59	39.795	44. 420	23.860	1.00 24.84	A	N
ATOM	194		LEU		38. 430	46. 135	24. 319		_	C
ATOM	195	CA	LEU	60	37. 765	46.073	23. 031	1.00 22.96	Α	U

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ATOM	196	CB	LEU	60	36.256	45. 910	23. 228	1.00 21.27	Α	C
ATOM	197	CG	LEU	60	35. 528	46.977	24.048	1.00 20.80	Α	C
ATOM	198		LEU	60	35. 373	48. 227	23. 208	1.00 19.95	Α	C
					34. 159	46. 466	24. 488	1.00 18.91	A	C
ATOM	199	CD2		60			22. 279	1.00 23.42	Ä	č
ATOM	200	C	LEU	60	38.072	47. 356				
ATOM	201	0	LEU	60	38. 507	48. 340	22.869	1.00 23.10	A	0
ATOM	202	N	ARG	61	37.862	47.339	20.971	1.00 25.94	A	N
ATOM	203	CA	ARG	61	38. 102	48.522	20. 153	1.00 27.08	Α	C
ATOM	204	CB	ARG	61	39.364	48.323	19.299	1.00 29.17	Α	C
ATOM	205	ĊĠ	ARG	61	40.545	47.713	20.076	1.00 34.91	Α	C
ATOM	206	CD	ARG	61	41.790	48.612	20.088	1.00 38.62	Α	С
	207	NE	ARG	61	42.423	48. 715	18.772	1.00 41.15	Α	N
ATOM				61	43. 337	47. 871	18. 299	1.00 41.78	Ä	C
ATOM	208	CZ	ARG		43. 754	46.848	19.033	1.00 40.61	Ä	Ň
ATOM	209	NH1	ARG	61				1.00 43.39	A	N
ATOM	210	NH2		61	43.821	48. 042	17.076			
ATOM	211	C	ARG	61	36.869	48. 724	19. 270	1.00 25.92	A	C
ATOM	212	0	ARG	61	36.616	47.939	18.358	1.00 26.31	A	0
ATOM	213	N	TRP	62	36.087	49.758	19.568	1.00 24.63	Α	N
ATOM	214	CA	TRP	62	34.883	50.050	.18.794	1.00 24.74	Α	C
ATOM	215	CB	TRP	62	34.092	51.207	19.420	1.00 23.22	Α	C
ATOM	216	ĊĠ	TRP	$\overline{62}$	33.472	50.900	20.741	1.00 23.78	Α	C
ATOM	217	CD2	TRP	62	32.302	50.110	20.972	1.00 23.80	Α	C
	218	CE2	TRP	62	32. 082	50.085	22.368	1.00 23.69	A	C
ATOM					31.416	49.419	20.133	1.00 22.71	A	Č
ATOM	219	CE3		62			21.972	1.00 24.25	A	č
ATOM	220	CD1	TRP	62	33.906	51.310		1.00 23.12	A	N
ATOM	221	NE1	TRP	62	33. 075	50.824	22.955			C
ATOM	222	CZ2		62	31.013	49.396	22.945	1.00 23.91	A	
ATOM	223	CZ3		62	30. 357	48.736	20. 703	1.00 24.08	A	C
ATOM	224	CH2	TRP	62	30.162	48.730	22.100	1.00 25.02	A	Č
ATOM	225	С	TRP	62	35. 241	50.427	17.365	1.00 25.48	Α	C
ATOM	226	0	TRP	62	35.980	51.380	17.138	1.00 27.15	Α	0
ATOM	227	N	ILE	63	34.722	49.682	16.398	1.00 26.16	Α	N
ATOM	228	CA	ILE	63	35.000	49.991	15.003	1.00 25.88	Α	C
ATOM	229	CB	ILE	63	35.312	48.727	14.180	1.00 25.95	Α	C
ATOM	230	CG2		63	36.494	48.000	14. 783	1.00 27.39	Α	C
	231	CG1	ILE	63	34. 092	47.810	14. 138	1.00 24.70	Ā	Č
ATOM					34. 246	46.666	13. 174	1.00 25.35	Ä	Č
ATOM	232		ILE	63			14. 400	1.00 26.00	Ä	č
ATOM	233	C	ILE	63	33. 788	50.680				ŏ
ATOM	234	0	ILE	63	33. 803	51.075	13. 239	1.00 26.14	A	
ATOM	235	N	SER	64	32. 738	50.812	15. 202	1.00 26.48	A	N
ATOM	236	CA	SER	64	31.510	51.470	14.768	1.00 28.43	A	C
ATOM	237	CB	SER	64	30.764	50.603	13.754	1.00 27.24	A	C
ATOM	238	0G	SER	64	30. 181	49. 481	14.392	1.00 28.00	Α	0
ATOM	239	C	SER	64	30.597	51.727	15.964	1.00 29.08	A	C
ATOM	240	0	SER	64	31.008	51.606	17.119	1.00 26.71	Α	0
ATOM	241	Ň	ASP	65	29. 348	52.067	15.678	1.00 31.29	Α	N
ATOM	242	CA	ASP	65	28. 382	52.336	16.732	1.00 34.90	Α	С
ATOM	243	CB	ASP	65	27. 384	53. 397	16. 269	1.00 37.81	Α	C
	244	CG	ASP	65	26. 515	53. 905	17. 395	1.00 41.52	Ā	Č
ATOM	444	CG	VOL	UU	40.010	55.500	11.000	1.00 11.00	••	Ū



FIG. 4-6										(Continued)
					r i	G. 4	- 0			•
ATOM	245	0D1	ASP	65	27.070	54. 235	18.465	1.00 43.44	Α	0
ATOM	246	OD2		65	25. 281	53.986	17. 211	1.00 44.76	Α	0
ATOM	247	C	ASP	65	27.640	51.064	17. 128	1.00 34.55	Α	C
ATOM	248	Ŏ	ASP	65	26.753	51.091	17.981	1.00 33.76	Α	0
ATOM	249	Ň	HIS	66	28.023	49.946	16.520	1.00 34.31	Α	N
ATOM	250	CA	HIS	66	27.369	48.679	16.807	1.00 35.30	Α	С
ATOM	251		HIS	66	26.555	48. 229	15.589	1.00 37.74	Α	С
ATOM	252		HIS	66	25.648	49. 288	15.052	1.00 42.72	Α	C
ATOM	253		HIS	66	24. 298	49.393	15.056	1.00 44.80	Α	C
ATOM	254	ND1		66	26. 121	50.438	14.455	1.00 45.16	Α	N
ATOM	255		HIS	66	25. 101	51.206	14.114	1.00 46.24	Α	С
ATOM	256		HIS	66	23.984	50. 595	14.468	1.00 46.79	Α	N
ATOM	257	C	HIS	66	28.314	47.555	17. 223	1.00 33.78	Α	С
ATOM	258	0	HIS	66	27.966	46.736	18.068	1.00 34.67	Α	0
ATOM	259	N	GLU	67	29.502	47.501	16.635	1.00 31.93	Α	N
ATOM	260	CA	GLU	67	30.432	46.434	16.979	1.00 31.45	Α	С
ATOM	261	CB	GLU	67	30.557	45.463	15.801	1.00 31.46	Α	С
ATOM	262	CG	GLU	67	30.356	46.103	14.447	1.00 33.17	Α	C
ATOM	263	CD	GLU	67	30.357	45.092	13.311	1.00 35.48	Α	C
ATOM	264	0E1	GLU	67	29.607	44.090	13.394	1.00 32.44	Α	0
ATOM	265	0E2	GLU	67	31.104	45.306	12.329	1.00 36.60	Α	0
ATOM	266	C	GLU	67	31.818	46.866	17.442	1.00 29.97	Α	C
ATOM	267	0	GLU	67	32.240	48.003	17. 241	1.00 30.44	Α	0
ATOM	268	N	TYR	68	32.513	45.940	18.088	1.00 29.07	Α	N
ATOM	269	CA	TYR	68	33.863	46.190	18.567	1.00 28.87	Α	C
ATOM	270	CB	TYR	<b>6</b> 8	33.866	46.447	20.073	1.00 26.31	Α	C
ATOM	271	CG	TYR	68	33. 307	45.324	20.917	1.00 23.19	Α	C
ATOM	272	CD1	TYR	68	32.000	45.376	21.400	1.00 21.93	A	C C C C C
ATOM	273	CE1		68	31.497	44.372	22. 231	1.00 21.10	A	C
ATOM	274		TYR	68	34. 102	44. 232	21. 281	1.00 23.23	A	Ç
ATOM	275		TYR	68	33.610	43. 225	22.110	1.00 22.67	A	C
ATOM	276	CZ	TYR	68	32.304	43.305	22. 582	1.00 22.02	A	
ATOM	277	0H	TYR	68		42. 321		1.00 22.72	A	0
ATOM	278	C	TYR	68	34. 747	44. 987	18. 256	1.00 29.51	A	C
ATOM	279	0	TYR	68	34. 244	43.885	18. 028	1.00 28.32	A	0
ATOM	280	N	LEU	69	36.058	45. 202	18. 233	1.00 29.87	A	N
ATOM	281	CA	LEU	69	36.986	44.115	17. 963	1.00 32.20	A	C
ATOM	282	CB	LEU	69	38. 154	44.602	17. 106	1.00 30.73	A	C
ATOM	283	CG	LEU	69	37.761	45.065	15.700	1.00 30.62	A	C
ATOM	284		LEU	69	38. 978	45.629	14. 963	1.00 29.98	A	C
ATOM	285		LEU	69	37. 164	43. 891	14. 943	1.00 30.17	A	C
ATOM	286	Ç	LEU	69	37.492	43. 588	19. 292	1.00 34.73	A	C
ATOM	287	0	LEU	69	37. 474	44. 305	20. 294	1.00 34.80	A	0
ATOM	288	N	TYR	70	37. 927	42.334	19.305	1.00 37.39	A	N
ATOM	289	CA	TYR	70 70	38. 423	41.726	20. 528	1.00 42.16	A	C
ATOM	290	CB	TYR	70	37. 251	41.359	21.444	1.00 42.66	A	C
ATOM	291	CG	TYR	70	37. 689	40.866	22. 799	1.00 43.06	A	C
ATOM	292	CD1		70 70	38. 400	41.697	23. 657	1.00 43.56	A A	C
ATOM	293	CEI	TYR	70	38. 837	41.253	24. 892	1.00 44.69	A	U

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(Continued)

F	T	G.	4 -	7
т.		u.	-1	•

ATOM	294	CD2	TYR	70	37.421	39.563	23. 213	1.00 43.93	Α	С
ATOM	295		TYR	70	37. 853	39.104	24.452	1.00 44.83	Α	C
	296	CZ	TYR	70	38. 563	39.959	25. 286	1.00 45.17	Α	C
ATOM					39.004	39. 532	26. 516	1.00 47.21	A	0
ATOM	297	OH	TYR	70				1.00 45.46	Ä	č
ATOM	298	C	TYR	70	39. 249	40. 480	20. 240			ő
ATOM	299	0	TYR	70	38. 976	39. 752	19. 287	1.00 46.31	A	
ATOM	300	N	LYS	71	40. 254	40. 231	21.072	1.00 49.93	A	N
ATOM	301	CA	LYS	71	41.113	39.064	20.895	1.00 54.71	Α	C
ATOM	302	CB	LYS	71	42.580	39.460	21.054	1.00 54.14	Α	C
ATOM	303		LYS	71	43.075	40.455	20.031	1.00 56.37	Α	C
	304	CD	LYS	71	44. 559	40.712	20. 226	1.00 58.61	Α	C
ATOM				71	45. 126	41.628	19.159	1.00 58.78	A	С
ATOM	305	CE	LYS			41. 830	19.361	1.00 60.82	A	Ň
ATOM	306	NZ	LYS	71	46. 590					Č
ATOM	307	C	LYS	71	40.790	37. 952	21.889		A	
ATOM	308	0	LYS	71	41.109	38.062	23.075	1.00 58.38	A	0
ATOM	309	N	GLN	72	40. 158	36.884	21.406	1.00 60.30	A	N
ATOM	310	CA	GLN	72	39.816	35. 750	22.261	1.00 63.23	Α	C
ATOM	311	CB	GLN	72	38.902	34. 775	21.526	1.00 64.07	Α	С
ATOM	312	ĊĠ	GLN	72	38. 313	33.695	22.417	1.00 65.84	Α	C
ATOM	313	CD	GLN	72	37. 270	34. 240	23.375	1.00 66.33	Α	C
	314	0E1	GLN	72	36. 251	34. 790	22.952	1.00 67.19	A	0
ATOM				72	37. 519	34. 092	24.671	1.00 66.80	Ä	N
ATOM	315	NE2	GLN				22.607	1.00 65.34	A	Ċ
ATOM	316	C	GLN	72 72	41. 122	35.049				ő
ATOM	317	0	GLN	72	41.563	35.058	23. 760	1.00 67.00	A	
ATOM	318	N	GLU	73	41.736	34. 442	21.597	1.00 66.09	A	N
ATOM	319	CA	GLU	73	43.012	33.763	21.775	1.00 67.12	A	C
ATOM	320	$\mathbf{CB}$	GLU	73	43.008	32.420	21.046	1.00 68.53	A	C
ATOM	321	CG	GLU	73	41.974	31.433	21.570	1.00 71.35	Α	C
ATOM	322	CD	GLU	73	42.223	31.026	23.012	1.00 72.71	Α	C
ATOM	323	0E1	GLU	73	41.491	30.147	23.517	1.00 73.51	Α	.0
ATOM	324	0E2	GLU	73	43.147	31.585	23.643	1.00 74.16	Α	0
ATOM	325	C	GLU	73	44.076	34.681	21. 184	1.00 66.83	Α	C
			GLU	73	44. 563	35. 592	21.857	1.00 67.65	Ä	Ŏ
ATOM	326	0				34. 442	19.924	1.00 65.38	Ä	N
ATOM	327	N	ASN	74	44. 430					C
ATOM	328	CA	ASN	74	45. 411	35. 273	19. 236		A	Č
ATOM	329	CB	ASN	74	46.661	34.466	18.889	1.00 64.38	A	_
ATOM	330	CG	ASN	74	47. 654	34.422	20.034	1.00 66.10	A	C
ATOM	331	OD1	ASN	74	48. 128	35.463	20.496	1.00 65.51	A	0
ATOM	332	ND2	ASN	74	47. 973	33. 216	20.503	1.00 66.62	Α	N
<b>ATOM</b>	333	. C	ASN	74	44.794	35.859	17. 977	1.00 61.55	Α	C
ATOM	334	Õ	ASN	74	45.384	36.714	17.318	1.00 62.15	Α	0
ATOM	335	Ň	ASN	75	43.597	35.390	17.647	1.00 58.67	Α	N
ATOM	336	ĊA	ASN	75	42.888	35.886	16.481	1.00 55.82	Α	C
	337	CB	ASN	75	42.023	34. 785	15.871	1.00 57.81	Α	С
ATOM					41.410	33. 887	16.916	1.00 58.63	Ä	Č
ATOM	338	CG	ASN	75 75			17. 909	1.00 59.69	Ä	ŏ
ATOM	339	OD1		75 75	40.857	34. 358		1.00 58.92	A	N
ATOM	340		ASN	75	41.500	32. 580	16.697			C
ATOM	341	C	ASN	75	42.017	37. 045	16.918	1.00 52.82	A	
ATOM	342	0	ASN	75	41.630	37. 135	18.081	1.00 53.60	Α	0

(Continued) FIG. 4-8 37.937 1.00 49.11 N 15.985 41.715 **ATOM** 343 N ILE 76 16.294 1.00 44.67 C 39.091 A 40.893 ILE 76 344 CA **ATOM** C 40.317 15.502 1.00 44.26 Α 41.343 345 CB ILE 76 **ATOM** C 41.533 15.956 1.00 43.37 Α 40.565 CG2 ILE 76 **ATOM** 346 C 15.716 1.00 45.27 Α 40.547 42.841 **ATOM** 347 CG1 ILE 76 Č 1.00 45.53 14.844 Α CD1 ILE 76 43.435 41.647 **ATOM** 348 C 1.00 42.80 39.446 38.786 15.964 Α ILE 76  $\mathsf{C}$ **ATOM** 349 38.322 14.868 1.00 41.85 A 0 39.127 350 0 ILE 76 **ATOM** 1.00 40.36 N 16.930 Α 39.045 LEU 77 38.574 **ATOM** 351 N C 1.00 37.65 LEU 77 37.151 38.801 16.772 Α CA **ATOM** 352 C 37.948 17.933 1.00 36.65 Α 36.636 LEU 77 CB **ATOM** 353 1.00 35.22 18.264 Α 36.642 37.363 **ATOM** 354 CG LEU 77 C 1.00 34.43 Α CD1 LEU 35.926 19.361 77 36.600 ATOM 355 35.756 1.00 34.38 C 17.039 37.459 Α CD2 LEU 77 **ATOM** 356 Č 1.00 35.91 36.365 40.107 16.730 A 77 **ATOM** 357 LEU C 0 1.00 35.03 Α 41.123 17.269 LEU 77 36.801 **ATOM** 358 0 N 1.00 34.19 35.212 40.069 16.070 Α N VAL 78 **ATOM** 359 C 41.226 15.981 1.00 31.96 A 34.330 **ATOM** 360 CA VAL 78 1.00 31.90 Α VAL 78 34.078 41.628 14.509 CB **ATOM** 361 C 40.420 13.704 1.00 31.34 A 33.612 CG1 VAL 78 **ATOM** 362 Ċ 1.00 31.56 33.048 42.747 14.442 A 78 **ATOM** 363 CG2 VAL C 1.00 31.15 A 33.011 40.838 16.667 78 **ATOM** 364 C VAL 16.336 1.00 30.46 0 39.819 VAL 78 32.404 A **ATOM** 365 0 N 41.643 17.636 1.00 29.90 A N PHE 79 32.582 **ATOM** 366 C 31.358 41.357 18.379 1.00 28.93 Α 367 CA PHE 79 **ATOM** 19.888 1.00 29.14 C 41.420 A 31.618 PHE 79 ATOM 368 CB C 40.238 1.00 28.39 A 20.440 **ATOM** 369 CG PHE 79 32.357 C CD1 PHE 79 33.704 40.051 20.165 1.00 28.20 A **ATOM** 370 C 39.314 21.243 1.00 27.22 A 31.701 CD2 PHE 79 **ATOM** 371 Č 1.00 28.13 38.956 20.684 Α CE1 PHE 34.391 **ATOM** 372 79 C 1.00 27.53 21.764 Α **ATOM** 373 CE2 PHE 79 32.374 38. 219 38.040 79 33.725 21.483 1.00 27.59 Α C **ATOM** 374 CZPHE 42.281 18.091 1.00 29.06 Α C 30.186 79 **ATOM** C 375 PHE 1.00 28.29 0 Α 79 30.354 43.487 17.912 **ATOM** 376 0 PHE 1.00 27.80 41.704 18.058 N 28.990 Α **ATOM** 377 N ASN 80 1.00 27.95 42.499 17.864 C 27.791 Α **ATOM** 378 CA ASN 80 1.00 27.03 C 41.670 17.209 A 26.681 379 CB ASN 80 **ATOM** 1.00 27.26 42.412 17.160 C 25.354 Α 380 CG ASN 80 **ATOM** 1.00 26.87 24.679 42.587 18.182 Α 0 **ATOM** 381 OD1 ASN 80 1.00 26.94 N 24.980 42.866 15.974 Α **ATOM** 382 ND2 ASN 80 42.874 19.289 1.00 28.06 C 27.405 A **ASN ATOM** 383 C 80 1.00 28.61 0 42.024 20.066 A 0 **ASN** 80 26.991 384 **ATOM** 1.00 28.12 N 44.140 19.642 Α 385 ALA 81 27.566 **ATOM** N

SUBSTITUTE SHEET (RULE 26)

44.579

46.075

44.254

43.769

44.506

44.282

27.250

27.503

25.818

25.582

24.870

23.461

CA

CB

C

0

N

CA

ALA

ALA

**ALA** 

**ALA** 

**GLU** 

GLU

81

81

81

81

82

82

386

387

388

389

390

391

**ATOM** 

**ATOM** 

**ATOM** 

**ATOM** 

**ATOM** 

**ATOM** 

20.991

21.119

21.413

22.527

20.516

20.809

1.00 29.16

1.00 27.93

1.00 31.04

1.00 30.16

1.00 32.39

1.00 34.46

C

C

C

0

N

C

A

Α

A

A

Α

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					FI	G. 4	- 9			(Continued)
ATOM	392	СВ	GLU	82	22. 602	44. 794	19.655	1.00 36.97	Α	С
ATOM	393	CG	GLU	82	21.115	44.827	19.968	1.00 40.49	Α	C
ATOM	394	CD	GLU	82	20. 313	45.538	18.894	1.00 44.05	A	C
ATOM	395	0E1	GLU	82	20. 343	45.087	17.726	1.00 45.13	A	0
ATOM	396	0E2	GLU	82	19.652	46.551	19. 220	1.00 45.61	A	0
ATOM	397	C	GLU	82	23. 042	42.853	21.153	1.00 33.95	A	C
ATOM	398	0	GLU	82	22.055	42.662	21.864	1.00 32.29	A	0
ATOM	399	N	TYR	83	23.777	41.857	20.666	1.00 33.23	A	N
ATOM	400	CA	TYR	83	23. 423	40.468	20.947	1.00 33.39	A	C
ATOM	401	CB	TYR	83	22.846	39.810	19.686	1.00 34.54	A	C
ATOM	402	CG	TYR	83	21.690	40.594	19.109	1.00 34.80	A	C
ATOM	403	CD1	TYR	83	20. 558	40.859	19.878	1.00 35.22	A	C
ATOM	404	CE1	TYR	83	19. 527	41.657	19.396	1.00 36.27	A	C
ATOM	405	CD2	TYR	83	21.759	41.139	17.828	1.00 35.71	A	C C
ATOM	406	CE2	TYR	83	20. 731	41.940	17. 331	1.00 37.42	A	C
ATOM	407	CZ	TYR	83	19.619	42. 200	18. 125	1.00 37.70 1.00 37.69	A	0
ATOM	408	OH	TYR	83	18.624	43.044	17. 675 21. 494	1.00 37.09	A A	C
ATOM	409	C	TYR	83	24. 582	39. 644 38. 511	21. 494	1.00 33.19	A	0
ATOM	410	0	TYR	83	24. 396	40. 217	21. 476	1.00 32.51	A	N
ATOM	411	N	GLY	84	25. 777 26. 933	39.513	21. 476	1.00 33.40	A	Ç
ATOM	412	CA	GLY	84 84	20. 933 27. 454	38. 395	21. 114	1.00 33.40	A	č
ATOM	413	C 0	GLY GLY	84	28. 329	37. 639	21.530	1.00 33.21	A	ŏ
ATOM ATOM	414 415	N	ASN	85	26. 918	38. 269	19. 904	1.00 35.26	A	Ň
ATOM	416	CA	ASN	85	27. 388	37. 233	18. 993	1.00 37.43	A	Ċ
ATOM	417	CB	ASN	85	26. 258	36.780	18. 072	1.00 38.34	Ä	Č
ATOM	418	CG	ASN	85	25. 764	37. 878	17. 166	1.00 40.02	A	Ċ
ATOM	419	0D1	ASN	85	25. 694	39.040	17.561	1.00 39.96	Α	0
ATOM	420		ASN	85	25. 394	37.496	15.950	1.00 41.91	Α	N
ATOM	421	C	ASN	85	28. 556	37.794	18.188	1.00 38.80	Α	C
ATOM	422	ŏ	ASN	85	28.687	39.011	18.035	1.00 40.05	Α	0
ATOM	423	Ň	SER	86	29.410	36.920	17.670	1.00 39.14	Α	N
ATOM	424	CA	SER	86	30. 565	37.393	16.926	1.00 39.30	Α	C
ATOM	425	CB	SER	86	31.723	37.587	17.895	1.00 38.90	Α	C
ATOM	426	0G	SER	86	32. 041	36.356	18.515	1.00 35.77	A	0
ATOM	427	C	SER	86	31.023	36. 482	15.798	1.00 39.94	A	C
ATOM	428	0	SER	86	30. 287	35.622	15. 323	1.00 41.15	A	0
ATOM	429	N	SER	87	32. 264	36. 701	15.382	1.00 40.59	A	N
ATOM	430	CA	SER	87	32. 916	35.929	14. 333	1.00 40.98	A	C C
ATOM	431	CB	SER	87	32. 152	36.053	13.010	1.00 39.16	A	C
ATOM	432	OG	SER	87	31. 727	37. 376	12.789	1.00 39.90	A	0
ATOM	433	Ç	SER	87	34. 353	36.433	14. 194	1.00 41.10	A	C 0
ATOM	434	0	SER	87	34. 691	37.517	14. 682 13. 548	1.00 41.07 1.00 41.07	A A	N N
ATOM	435	N	VAL	88	35. 206	35.646	13. 548	1.00 41.07	A	C
ATOM	436	CA	VAL	88	36.596	36. 043 34. 836	13. 402	1.00 41.43	A	C
ATOM	437	CB	VAL	88 88	37. 502 38. 949	34. 636 35. 295	13. 114	1.00 41.29	A	C
ATOM	438	CG1 CG2		88	37. 361	33. 808	14. 222	1.00 40.28	A	č
ATOM	439 440	CGZ	VAL	88	36.827	37. 096	12. 331	1.00 41.63	A	č
ATOM	440	U	4 LT	00	00.021	01.000		1.00 11.00	••	=

					(Continued)
				FIG. 4-10	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	447 CD2 448 CE2 449 CE3 450 CZ 451 C 452 O 453 N 454 CA 455 CB 456 CG 457 CD 458 CD 459 C 460 O 461 N 462 CA 463 CB 464 CG 465 CD 466 OE	1 LEU 2 LEU LEU GLU GLU GLU GLU GLU GLU GLU GLU GLU GL	88 89 89 89 89 89 89 89 89 90 90 90 90 91 91 91 91 91 91 91	36. 548       36. 885       11. 154       1. 00 41. 38       A         37. 343       38. 238       12. 767       1. 00 42. 23       A         37. 641       39. 347       11. 880       1. 00 42. 51       A         37. 769       40. 637       12. 699       1. 00 40. 84       A         37. 990       41. 865       11. 870       1. 00 39. 96       A         39. 217       42. 103       11. 265       1. 00 39. 62       A         36. 963       42. 778       11. 678       1. 00 40. 08       A         39. 415       43. 231       10. 480       1. 00 39. 60       A         37. 154       43. 911       10. 894       1. 00 39. 50       A         38. 381       44. 135       10. 295       1. 00 39. 50       A         38. 956       39. 021       11. 186       1. 00 43. 57       A         39. 156       39. 335       10. 019       1. 00 43. 51       A         39. 851       38. 376       11. 921       1. 00 45. 92       A         41. 143       38. 001       11. 380       1. 00 45. 92       A         41. 143       38. 901       11. 380       1. 00 49. 47       A         42. 236       <	(Continued)  O N C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	472 CB 473 CG 474 OE 475 NE 476 C 477 O 478 N 479 CA 480 CE 481 OC 482 C 483 O 484 N 485 CA 486 CI 487 OC	ASN ASN ASN ASN ASN SER A SER SER SER SER THR A THR B THR G2 THR	92 92 92 92 92 93 93 93 93 94 94 94 94	45. 881       33. 389       15. 477       1. 00       59. 59       A         45. 129       32. 082       15. 585       1. 00       59. 68       A         45. 189       31. 248       14. 684       1. 00       59. 97       A         44. 420       31. 894       16. 691       1. 00       61. 11       A         46. 622       33. 271       13. 111       1. 00       59. 58       A         47. 806       33. 061       13. 370       1. 00       59. 03       A         46. 059       32. 862       11. 984       1. 00       60. 45       A         46. 828       32. 127       10. 991       1. 00       61. 76       A         45. 978       30. 985       10. 427       1. 00       62. 43       A         46. 714       30. 198       9. 507       1. 00       64. 10       A         47. 296       33. 030       9. 853       1. 00       62. 23       A         46. 552       34. 103       9. 618       1. 00       62. 37       A         46. 852       35. 036       8. 541       1. 00       62. 69       A         45. 982       36. 298       8. 659       1. 00       63. 59	N C C C O C C C C C C C C C C C C C C C

				(Continued)
			FIG. 4-11	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	490 O THR 491 N PHE 492 CA PHE 493 CB PHE 494 CG PHE 495 CD1 PHE 496 CD2 PHE 497 CE1 PHE 498 CE2 PHE 499 CZ PHE 500 C PHE 501 O PHE 502 N ASP 503 CA ASP 504 CB ASP 505 CG ASP 506 OD1 ASP 507 OD2 ASP 508 C ASP	94 95 95 95 95 95 95 95 96 96 96 96 96	48. 882       35. 295       7. 303       1. 00 61. 92       A         48. 908       36. 013       9. 426       1. 00 62. 57       A         50. 290       36. 473       9. 322       1. 00 63. 04       A         50. 414       37. 889       9. 897       1. 00 61. 98       A         49. 456       38. 869       9. 289       1. 00 61. 01       A         48. 248       39. 155       9. 911       1. 00 60. 97       A         49. 742       39. 473       8. 073       1. 00 60. 73       A         47. 337       40. 026       9. 330       1. 00 60. 46       A         48. 838       40. 343       7. 483       1. 00 60. 09       A         47. 633       40. 621       8. 113       1. 00 61. 07       A         51. 346       35. 571       9. 956       1. 00 63. 20       A         52. 178       36. 035       10. 736       1. 00 63. 37       A         52. 298       33. 347       10. 149       1. 00 64. 05       A         51. 771       31. 589       11. 115       1. 00 65. 73       A         49. 758       32. 342       11. 240       1. 00 66. 41       A         50. 929       30. 580<	0 N C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	508 C ASP 509 O ASP 510 N GLU 511 CA GLU 512 CB GLU 513 CG GLU 514 CD GLU 515 OE1 GLU 516 OE2 GLU 517 C GLU 518 O GLU 518 O GLU 519 N PHE 520 CA PHE 521 CB PHE 522 CG PHE 523 CD1 PHE 524 CD2 PHE	96 97 97 97 97 97 97 97 98 98 98 98	53. 621       33. 470       5. 355       1. 00       63. 82       A         54. 696       33. 433       10. 001       1. 00       64. 05       A         53. 540       33. 619       8. 083       1. 00       62. 95       A         54. 740       33. 754       7. 271       1. 00       62. 73       A         54. 596       32. 964       5. 965       1. 00       65. 91       A         54. 954       31. 478       6. 064       1. 00       68. 84       A         53. 945       30. 657       6. 850       1. 00       70. 64       A         54. 160       29. 432       6. 988       1. 00       71. 38       A         52. 939       31. 228       7. 325       1. 00       71. 80       A         55. 039       35. 220       6. 963       1. 00       60. 82       A         55. 462       35. 557       5. 857       1. 00       60. 31       A         54. 818       36. 084       7. 952       1. 00       58. 68       A         55. 067       37. 513       7. 797       1. 00       55. 93       A         54. 200       38. 319       8. 765       1. 00       54. 84	0 N C C C O O C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	525 CE1 PHE 526 CE2 PHE 527 CZ PHE 528 C PHE 529 O PHE 530 N GLY 531 CA GLY 531 CA GLY 532 C GLY 533 O GLY 534 N HIS 535 CA HIS 536 CB HIS 537 CG HIS 538 CD2 HIS	98 98 98 98 98 99 99 100 100 100	53. 808       41. 743       7. 173       1. 00       53. 28       A         55. 032       41. 997       9. 226       1. 00       53. 18       A         54. 470       42. 556       8. 087       1. 00       52. 22       A         56. 536       37. 820       8. 060       1. 00       54. 61       A         57. 041       38. 878       7. 686       1. 00       53. 80       A         57. 215       36. 885       8. 713       1. 00       53. 53       A         58. 624       37. 061       9. 004       1. 00       52. 08       A         58. 908       38. 188       9. 972       1. 00       51. 18       A         60. 037       38. 673       10. 051       1. 00       51. 30       A         57. 884       38. 607       10. 706       1. 00       50. 21       A         58. 026       39. 681       11. 686       1. 00       49. 15       A         57. 810       41. 049       11. 028       1. 00       48. 84       A         58. 759       41. 613       8. 679       1. 00       49. 42       A	C C C C O N C C C C

									(Continued)
				F I	G. 4	- 12			,
ATOM	539	ND1 H	HIS 10	0 60.170	41.627	10.346	1.00 49.70	Α	N
ATOM	540	CE1 H				9. 259	1.00 49.10	Ä	Č
ATOM	541	NE2 H				8. 234	1.00 50.14	A	N
ATOM	542		HS 10			12. 810	1.00 48.06	Ä	Ċ
ATOM	543		HIS 10			12.602	1.00 47.18	A	Ö
ATOM	544		SER 10			14.005	1.00 46.66	Ä	N
ATOM	545		SER 10			15. 136	1.00 45.88	Ä	Ċ
ATOM	546		SER 10			16. 446	1.00 47.41	Ā	Č
ATOM	547		SER 10			16.447	1.00 51.04	Ā	0
ATOM	548		SER 10			15. 112	1.00 44.53	A	Č
ATOM	549		SER 10			15. 282	1.00 44.41	A	0
ATOM	550		LE 10			14.877	1.00 41.90	A	N
ATOM	551		LE 10			14.833	1.00 38.95	Α	C
ATOM	552		LE 10			14.117	1.00 38.54	Α	C
ATOM	553	CG2 I				14.103	1.00 38.18	Α	C
ATOM	554	CG1 I				12.686	1.00 37.65	Α	C
ATOM	555	CD1 I	LE 10			11.937	1.00 37.11	Α	С
ATOM	556	C I	LE 10	2 53. 104	42.597	16. 244	1.00 38.00	Α	C
ATOM	557	0 I	LE 10			17.024	1.00 38.06	Α	0
ATOM	558		ISN 10			16.556	1.00 37.54	Α	N
ATOM	559		ISN 10			17.867	1.00 36.65	Α	С
ATOM	560		ISN 10			18.039	1.00 37.69	Α	С
ATOM	561		ISN 10			19. 315	1.00 39.56	Α	C
ATOM	562	0D1 A				20. 388	1.00 43.00	Α	0
ATOM	563	ND2 A				19. 211	1.00 38.34	A	N
ATOM	564		SN 10			18. 116	1.00 35.79	A	C
ATOM	565		ISN 10			19. 237	1.00 35.79	A	0
ATOM	566		SP 10			17.078	1.00 34.43	A	N
ATOM	567		SP 10			17. 236	1.00 33.27	A	C
ATOM	568		SP 10			17. 998	1.00 34.38	A	C
ATOM	569		SP 10			18.618	1.00 34.79	A	C
ATOM	570	OD1 A				19.509	1.00 33.92	A	0
ATOM	571 572	OD2 A				18. 207	1.00 36.80	A	0
ATOM	572 572		ISP 10 ISP 10			15.865	1.00 32.32	A	C
ATOM ATOM	573 574		ASP 10 YR 10			14.850	1.00 32.03 1.00 31.15	A	0
ATOM	575		YR 10			15. 834 14. 570	1.00 31.13	A A	N C
ATOM	576		TYR 10			14. 223	1.00 32.24	A	C
ATOM	577		YR 10			15. 072	1.00 34.70	A	Č
ATOM	578	CD1 T				14. 698	1.00 37.73	A	č
ATOM	579		YR 10			15. 506	1.00 40.43	A	Č
ATOM	580	CD2 T				16. 284	1.00 39.06	A	C C
ATOM	581	CE2 T				17. 103	1.00 40.75	A	č
ATOM	582		YR 10			16. 705	1.00 41.19	Ä	č
ATOM	583		YR 10			17.519	1.00 44.27	Ä	Ŏ
ATOM	584		YR 10			14.638	1.00 31.43	Ā	Č
ATOM	585		YR 10			15.715	1.00 30.78	A	0
ATOM	586		SER 10		48. 152	13.479	1.00 30.16	Α	N
ATOM	587	CA S	SER 10			13.415	1.00 29.23	Α	C

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			(Continued)
		FIG. 4-13	(001101111010
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	588 CB SER 106 589 OG SER 106 590 C SER 106 591 O SER 106 592 N ILE 107 593 CA ILE 107 594 CB ILE 107	45. 762       50. 588       13. 457       1. 00       29. 81       A         44. 924       51. 668       13. 090       1. 00       32. 32       A         44. 146       49. 187       12. 157       1. 00       27. 65       A         44. 657       49. 085       11. 051       1. 00       28. 57       A         42. 835       49. 240       12. 331       1. 00       28. 07       A         41. 922       49. 171       11. 198       1. 00       27. 70       A         40. 648       48. 352       11. 544       1. 00       25. 83       A	0 A C A O A N A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	595 CG2 ILE 107 596 CG1 ILE 107 597 CD1 ILE 107 598 C ILE 107 599 O ILE 107 600 N SER 108 601 CA SER 108 602 CB SER 108 603 OG SER 108	41. 113 52. 035 8. 862 1. 00 26. 94 41. 331 52. 033 7. 346 1. 00 26. 30	A C A C A O A N A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	604       C       SER       108         605       O       SER       108         606       N       PRO       109         607       CD       PRO       109         608       CA       PRO       109         609       CB       PRO       109         610       CG       PRO       109	39. 639       52. 253       9. 169       1. 00       27. 22       4         38. 857       51. 310       9. 206       1. 00       26. 49       4         39. 241       53. 506       9. 393       1. 00       28. 50       4         40. 025       54. 751       9. 302       1. 00       29. 19       4         37. 839       53. 794       9. 693       1. 00       29. 39       4         37. 745       55. 294       9. 439       1. 00       30. 19       4         39. 080       55. 775       9. 899       1. 00       28. 76       4	A C A O A N A C A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	611 C PRO 109 612 O PRO 109 613 N ASP 110 614 CA ASP 110 615 CB ASP 110 616 CG ASP 110 617 OD1 ASP 110 618 OD2 ASP 110	35. 901     52. 425     9. 391     1. 00     30. 65     4       37. 046     52. 935     7. 540     1. 00     29. 41     4       36. 120     52. 202     6. 676     1. 00     28. 98     4       36. 241     52. 673     5. 226     1. 00     27. 99     4       37. 613     52. 432     4. 648     1. 00     27. 91     4       38. 226     51. 397     4. 976     1. 00     28. 41     4	A C A O A N A C A C A C A O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	619 C ASP 110 620 O ASP 110 621 N GLY 111 622 CA GLY 111 623 C GLY 111 624 O GLY 111 625 N GLN 112	36. 280       50. 685       6. 715       1. 00       29. 06       1. 00	A C A O A N A C A C A O A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	626 CA GLN 112 627 CB GLN 112 628 CG GLN 112 629 CD GLN 112 630 OE1 GLN 112 631 NE2 GLN 112 632 C GLN 112 633 O GLN 112 634 N PHE 113 635 CA PHE 113	38. 777       49. 171       3. 109       1. 00       29. 94         37. 336       49. 442       2. 749       1. 00       31. 79         37. 191       50. 234       1. 465       1. 00       33. 24         36. 075       50. 474       1. 004       1. 00       36. 27         38. 314       50. 644       0. 880       1. 00       31. 73         40. 415       47. 813       4. 390       1. 00       30. 31         40. 888       46. 971       3. 631       1. 00       31. 75         41. 141       48. 418       5. 320       1. 00       29. 82         42. 551       48. 106       5. 486       1. 00       28. 23	A C A C A C A C A C A C A O A N A C A O A O A O A O A N A C

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(Continued) FIG. 4-14 1.00 22.98 C 49.467 3.458 43.193 **ATOM** 637 CG PHE 113 C 50.301 1.00 20.83 Α 42.164 3.052 638 CD1 PHE 113 ATOM  $\mathbb{C}$ 1.00 23.28 48.880 2.496 Α 639 44.010 CD2 PHE 113 **ATOM** C 41.950 50.552 1.709 1.00 20.79 Α CE1 PHE 113 **ATOM** 640 C 1.00 22.78 Α 49.121 43.805 1.150 **ATOM** 641 CE2 PHE 113 C 1.00 22.17 Α 49.962 0.754 CZPHE 113 42.771 **ATOM** 642 C Α PHE 42.919 47.974 6.947 1.00 30.31 643 C 113 **ATOM** 48.511 7.827 1.00 31.09 A 0 42.234 PHE 113 **ATOM** 644 0 N 1.00 29.70 A 47.260 7.196 ILE 114 44.013 **ATOM** 645 N C A 1.00 30.73 ILE 114 44.521 47.092 8.542 CA **ATOM** 646 C 45.642 9.075 1.00 31.72 A 44.342 114 **ATOM** 647 CB ILE C 1.00 33.03 Α 44.633 8.042 44.804 **ATOM** 648 CG2 ILE 114 C Α 10.381 1.00 32.62 45.475 649 CG1 ILE 114 45.128 **ATOM** C 11.007 44.092 1.00 33.60 Α 45.028 650 CD1 ILE 114 **ATOM** C 1.00 30.59 Α 46.000 47.457 8.509 **ATOM** 651 C ILE 114 1.00 28.76 0 Α 46.754 46.974 7.661 652 ILE 114 **ATOM** 0 N 48.343 9.423 1.00 30.68 Α LEU 115 46.388 **ATOM** 653 N 1.00 29.92 C 47.759 48.814 9.543 Α **ATOM** 654 CA LEU 115 1.00 30.35 C 50.257 Α 655 CB LEU 115 47.769 10.053 **ATOM** C 50.941 10.131 1.00 31.72 Α 49.135 **ATOM** 656 CG LEU 115 C 1.00 33.17 8.718 Α 49.668 51.147 657 · CD1 LEU 115 **ATOM** C 1.00 30.77 Α 49.018 52.271 10.857 **ATOM** 658 CD2 LEU 115 C 47.911 10.530 1.00 29.61 Α C LEU 115 48.481 **ATOM** 659 0 1.00 30.77 48.127 47.861 11.707 Α **ATOM** 660 0 LEU 115 1.00 28.74 N 49.484 47.188 10.048 Α **ATOM** 661 N LEU 116 50.245 46.278 10.891 1.00 28.06 C Α 116 **ATOM** 662 CA LEU 1.00 30.07 C 45.023 10.103 Α 50.624 **ATOM** 663 CB LEU 116 C **ATOM** 664 CG LEU 116 49.450 44.251 9.481 1.00 30.51 Α 8.570  $\mathbb{C}$ 49.978 43.171 1.00 31.10 A **ATOM** 665 CD1 LEU 116 C 1.00 30.99 10.573 A 48.583 43.644 **ATOM** 666 CD2 LEU 116 C 1.00 28.28 Α 46.997 11.363 **ATOM** 667  $\mathbb{C}$ LEU 116 51.489 10.591 1.00 30.37 0 0 52.145 47.690 A **ATOM** 668 LEU 116 1.00 27.78 46.824 12.634 Α N 51.813 N **ATOM** 669 **GLU** 117 1.00 26.58 C 47.484 13.227 52.962 **ATOM** 670 CA GLU 117 C 14.382 1.00 25.51 52.476 48.358 Α CB GLU 117 **ATOM** 671 1.00 23.69 C 15.036 Α 672 CG GLU 117 53.510 49. 241 **ATOM** 16.138 1.00 27.72 A C 52.897 50.076 673 CD GLU 117 **ATOM** 1.00 29.08 0 52.732 49.572 17.268 Α 117 674 OE1 GLU **ATOM** 1.00 30.62 15.868 Α 0 52.552 51.242 OE2 GLU 117 **ATOM** 675 13.738 1.00 27.81 A C 53.997 46.491 **ATOM** 676 C **GLU** 117 53.666 45.586 14.506 1.00 27.41 Α 0 117 677 0 **ATOM GLU** 13.313 1.00 27.75 N Α 46.663 678 N TYR 118 55.247 **ATOM** C 13.765 1.00 29.68 Α 56.327 45.796 679 CA TYR 118 **ATOM** Ċ 56.473 12.837 1.00 29.52 Α TYR 44.586 CB 118 **ATOM** 680 C 56.819 1.00 28.58 11.402 118 44.903 Α CG TYR **ATOM** 681 Č 1.00 29.31 55.922 45.572 10.573 A **ATOM** 682 CD1 TYR 118  $\mathbf{C}$ 1.00 28.13 Α CE1 TYR 118 56.236 45.838 9.239 683 **ATOM** 

58.040

58.362

CD2 TYR

CE2 TYR

684

685

**ATOM** 

**ATOM** 

118

118

44.510

44.769

10.864

9.541

1.00 28.81

1.00 27.91

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					FIC	G. 4-	- 15			(Continued)
ATOM	686	CZ	TYR	118	57. 459	45.431	8.735	1.00 28.04	Α	C
ATOM	687	OH	TYR	118	57. 792	45.681	7.427	1.00 29.86	A	0
ATOM	688	C	TYR	118	57.641	46.572	13.863	1.00 31.53	A	C
ATOM	689	0	TYR	118	57. 683	47.763	13.550	1.00 32.24	A	0
ATOM	690	N	ASN	119	58. 708	45. 903	14. 295	1.00 32.40	A	N C
ATOM	691	CA	ASN	119	60.008	46. 557	14.459	1.00 33.64 1.00 35.42	A A	C
ATOM	692	CB	ASN	119	60. 511	47. 128 46. 066	13. 131 12. 207	1.00 36.36	A	Č
ATOM	693	CG	ASN	119	61.069 61.958	45.306	12.584	1.00 37.66	A	ŏ
ATOM	694 695	OD1 ND2	ASN	119 119	60. 560	46.021	10.983	1.00 37.41	A	Ň
ATOM ATOM	696	C	ASN	119	59. 875	47. 697	15.464	1.00 34.07	A	C
ATOM	697	Õ	ASN	119	60. 548	48. 719	15.348	1.00 34.50	A	0
ATOM	698	N	TYR	120	58. 996	47.514	16.443	1.00 33.92	Α	N
ATOM	699	CA	TYR	120	58.741	48.517	17.472	1.00 33.38	Α	C
ATOM	700	CB	TYR	120	57. 510	48.097	18.290	1.00 33.40	A	C
ATOM	701	CG	TYR	120	57. 290	48.870	19.569	1.00 33.30	A	C
ATOM	702	CD1	TYR	120	58.029	48. 582	20.715	1.00 33.37	A	C
ATOM ·	703	CE1	TYR	120	57. 818	49. 284	21.902	1.00 34.88	A	C
ATOM	704		TYR	120	56. 333	49.886	19.636	1.00 33.62	A	C C
ATOM	705	CE2		120	56.114	50. 596	20.813	1.00 32.73 1.00 35.24	A A	C
ATOM	706	CZ	TYR	120	56.859	50. 289 50. 977	21.944 23.121	1.00 33.24	A	Õ
ATOM	707	OH C	TYR TYR	120 120	56. 643 59. 933	48. 772	18.396	1.00 33.12	A	č
ATOM ATOM	708 709	C 0	TYR	120	60. 472	47. 849	19.007	1. 00 33. 80	A	ŏ
ATOM	710	N	VAL	121	60. 330	50. 038	18.491	1.00 31.69	Ä	Ň
ATOM	711	CA	VAL	121	61.441	50. 446	19.343	1.00 30.32	A	С
ATOM	712	CB	VAL	121	62.672	50.845	18.504	1.00 30.75	Α	С
ATOM	713	CG1	VAL	121	63.853	51.140	19.420	1.00 28.68	Α	С
ATOM	714	CG2	VAL	121	63.013	49.736	17.525	1.00 29.00	A	C C C
ATOM	715	C	VAL	121	61.008	51.645	20.190	1.00 29.83	A	
ATOM	716	0	VAL	121	60. 788	52. 738	19.670	1.00 30.47	A	0
ATOM	717	N	LYS	122	60. 889	51.434	21.495		A	N
ATOM	718	CA	LYS	122	60.464	52. 488	22. 404 23. 799	1.00 27.02 1.00 23.73	A A	C C
ATOM	719	CB	LYS	122 122	60. 214 59. 793	51. 910 52. 954	24. 819	1.00 21.38	A	č
ATOM ATOM	720 721	CG CD	LYS LYS	122	59. 573	52. 354	26. 191	1.00 20.47	A	č
ATOM	722	CE	LYS	122	59.078	53. 406	27.174	1.00 19.23	A	Č
ATOM	723	NZ	LYS	122	60.062	54. 510	27.346	1.00 18.20	A	N
ATOM	724	C	LYS	122	61.460	53.635	22.528	1.00 27.64	Α	C
ATOM	725	Ŏ	LYS	122	62.658	53.464	22.315	1.00 28.10	Α	0
ATOM	726	N	GLN	123	60.947	54.813	22.860	1.00 27.23	A	N
ATOM	727	CA	GLN	123	61.791	55. 979	23. 071	1.00 27.82	A	C
ATOM	728	CB	GLN	123	61.607	57.034	21.974	1.00 28.29	A	C
ATOM	729	CG	GLN	123	62. 537	58. 227	22. 164	1.00 28.94	A	C ·
ATOM	730	CD	GLN	123	62. 339	59.308	21. 131 20. 889	1.00 29.91 1.00 32.37	A A	0
ATOM	731	OE1		123 123	61.218	59. 744 59. 761	20. 524	1.00 32.37	A	N
ATOM	732 733	NE 2 C	GLN GLN	123	63. 431 61. 385	56. 545	24. 428	1.00 30.34	A	Ċ
ATOM ATOM	734	ŏ	GLN	123	61.837	56. 036	25. 453	1.00 27.03	Ä	Ö
UION	101	v	JUIT	150	01.001	55.555				

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ATOM	735	N	TRP	124	60. 522	57. 564	24.444	1.00 23.89	· A	N
ATOM	736	CA	TRP	124	60.081	58. 149	25.713	1.00 24.21	Α	C
	737	CB	TRP	124	59.886	59.665	25. 572	1.00 23.25	Α	C
ATOM	738	CG	TRP	124	61.052	60. 357	24. 934	1.00 19.79	Α	С
ATOM			TRP	124	62. 444	60.061	25. 127	1.00 19.03	A	C
ATOM	739	CD2		124 124	63. 175	60. 913	24. 270	1.00 19.13	A	Č
ATOM	740	_	TRP	124	63.143	59. 157	25. 936	1.00 15.51	Ä	Č
ATOM	741	_	TRP		60. 999	61.350	24.006	1.00 18.84	Ä	Č
ATOM	742	CD1	TRP	124		61.690	23. 597	1.00 18.74	A	Ň
ATOM	743	NE1	TRP	124	62. 270	60.885	24. 196	1.00 13.74	A	C
ATOM	744		TRP	124	64.571		25. 860	1.00 15.41	A	Č
ATOM	745	CZ3	TRP	124	64.533	59.129	24. 996	1.00 13.41	A	C
ATOM	746	CH2	TRP	124	65. 229	59.986		1.00 17.07	A	č
ATOM	747	C	TRP	124	58. 787	57. 494	26. 209		A	Õ
ATOM	748	0	TRP	124	58. 490	56. 350	25.861			N
ATOM	749	N	ARG	125	58.013	58. 218	27. 013	1.00 24.36	A	
ATOM	750	CA	ARG	125	56. 779	57. 670	27. 567	1.00 23.36	A	C
ATOM	751	CB	ARG	125	56. 189	58. 621	28.609	1.00 23.81	A	C
ATOM	752	CG	ARG	125	54.953	58.065	29.308	1.00 23.85	A	C
ATOM	753	CD	ARG	125	54. 273	59. 129	30.143	1.00 26.24	A	C
ATOM	754	NE	ARG	125	55.090	59. 579	31. 269	1.00 25.99	A	N
ATOM	755	CZ	ARG	125	55. 293	58.867	32. 372	1.00 26.04	A	C
ATOM	756	NH1	ARG	125	56.051	59. 357	33. 347	1.00 24.42	A	N
ATOM	757	NH2	ARG	125	54. 735	57.668	32.500	1.00 25.19	A	N
ATOM	758	C	ARG	125	55. 706	57. 324	26. 541	1.00 24.00	A	C
ATOM	759	0	ARG	125	54.935	56. 387	26. 752	1.00 25.04	Α	0
ATOM	760	N	HIS	126	55.651	58.063	25.436	1.00 23.33	Α	N
ATOM	761	CA	HIS	126	54.649	57.800	24.403	1.00 22.86	Α	C
ATOM	762	CB	HIS	126	53.649	58.943	24.353	1.00 21.14	Α	C
ATOM	763	CG	HIS	126	52.987	59. 224	25.662	1.00 22.35	Α	C
ATOM	764	CD2	HIS	126	53.027	60.316	26.463	1.00 21.51	Α	C
ATOM	765	ND1	HIS	126	52.137	58. 329	26. 274	1.00 22.03	Α	N
ATOM	766		HIS	126	51.679	58.859	27.395	1.00 23.59	Α	C
ATOM	767		HIS	126	52.202	60.064	27.532	1.00 22.48	Α	N
ATOM	768	C	HIS	126	55. 222	57.599	22.995	1.00 24.43	Α	C
ATOM	769	ŏ	HIS	126	54.599	56.947	22.153	1.00 23.99	Α	0
ATOM	770	Ň	SER	127	56.401	58.163	22.744	1.00 23.89	Α	N
ATOM	771	CA	SER	127	57.039	58.072	21.434	1.00 24.38	Α	C
ATOM	772	CB	SER	127	58.050	59. 213	21.267	1.00 23.49	Α	· C
ATOM	773	0G	SER	127	58.909	59.311	22.387	1.00 23.05	Α	0
ATOM	774	C	SER	127	57. 737	56. 748	21.146	1.00 24.40	Α	C
ATOM	775	ŏ	SER	127	58. 167	56.050	22.061	1.00 26.55	Α	0
ATOM	776	N	TYR	128	57.841	56. 420	19.861	1.00 22.67	Α	N
ATOM	777	CA	TYR	128	58. 501	55. 207	19. 403	1.00 22.06	Α	C
ATOM	778	CB	TYR	128	57. 787	53.962	19. 928	1.00 21.99	Α	C
ATOM	779	CG	TYR	128	56. 413	53. 712	19. 331	1.00 22.49	A	C
ATOM	780	CD1			55. 257	54. 112	20.003	1.00 23.20	A	Č
	781	CE1			53. 992	53. 857	19. 487	1.00 19.81	A	Č
ATOM	782		TYR		56. 267	53. 049	18. 109	1.00 20.70	Ä	Č
ATOM	783		TYR		55. 007	52. 791	17. 580	1.00 20.87	Ä	Č
ATOM	100	ULL	111/	140	00.001	04.101	11.000	1.00 00.01	••	_

(Continued)

				FI	G 4-	- 17			(Con
		mir	100			18. 279	1.00 22.39	A	С
ATOM	784 CZ	TYR	128	53.872	53. 197 52. 946	17.776	1.00 22.39	A	Ö
ATOM	785 OH	TYR	128	52. 614 58. 509	52. 940 55. 160	17. 882	1.00 13.88	A	Č
ATOM	786 C	TYR TYR	128 128	57. 800	55. 922	17. 224	1.00 24.63	Ä	Ŏ
ATOM	787 O 788 N	THR	129	59. 328	54. 281	17. 320	1.00 22.88	A	Ň
ATOM	789 CA	THR	129	59. 360	54. 125	15.874	1.00 25.24	Ä	C
ATOM ATOM	790 CB	THR	129	60. 723	54. 474	15. 245	1.00 27.54	Ā	С
ATOM	790 CB		129	61.756	53.676	15.844	1.00 33.01	Α	0
ATOM	792 CG2		129	61.025	55. 951	15.419	1.00 28.79	Α	C
ATOM	793 C	THR	129	59.062	52.675	15.580	1.00 24.85	Α	С
ATOM	794 0	THR	129	59. 168	51.811	16.457	1.00 22.29	Α	0
ATOM	795 N	ALA	130	58. 692	52.411	14. 337	1.00 24.54	A	N
ATOM	796 CA	ALA	130	58. 356	51.062	13.943	1.00 25.98	A	C
ATOM	797 CB	ALA	130	57. 061	50.636	14.618	1.00 22.73	A	C
ATOM	798 C	ALA	130	58. 195	50.983	12.445	1.00 26.81	A	C
ATOM	799 0	ALA	130	58. 277	51.988	11.740	1.00 27.92 1.00 27.15	A	O N
ATOM	800 N	SER	131	57. 978	49. 767	11.965 10.556	1.00 27.13	A A	C
ATOM	801 CA	SER	131	57. 759 58. 643	49. 540 48. 403	10. 059	1.00 28.58	A	Č
ATOM	802 CB	SER SER	131 131	59. 995	48. 822	10.033	1.00 29.90	A	ő
ATOM	803 OG 804 C	SER	131	56. 290	49. 187	10. 426	1.00 27.17	A	Č
ATOM ATOM	804 C 805 O	SER	131	55. 651	48. 779	11. 397	1.00 27.00	A	ŏ
ATOM	806 N	TYR	132	55. 747	49. 351	9. 232	1.00 27.56	A	N
ATOM	807 CA	TYR	132	54. 341	49.061	9.029	1.00 28.28	Α	C
ATOM	808 CB	TYR	132	53. 532	50.357	9.156	1.00 27.16	Α	C
ATOM	809 CG	TYR	132	53.649	51.046	10.507	1.00 25.23	Α	C
<b>ATOM</b>	810 CD1		132	52.692	50.842	11.500	1.00 24.00	A	C
ATOM	811 CE		132	52. 790	51.483	12. 735	1.00 23.00	A	C
ATOM	812 CD		132	54. 714	51.908	10.785	1.00 22.89	A	C
ATOM	813 CE		132	54. 822	52. 549	12.016	1.00 21.43	A	C
ATOM	814 CZ	TYR	132	53. 856	52. 333	12. 985	1.00 22.58 1.00 21.69	A A	0
ATOM	815 OH	TYR	132	53. 940 54. 071	52. 976 48. 418	14. 198 7. 680	1.00 21.09	A	Č
ATOM	816 C	TYR TYR	$\begin{array}{c} 132 \\ 132 \end{array}$	54. 794	48. 639	6.712	1.00 20.72	A	ŏ
ATOM ATOM	817 O 818 N	ASP	132	53. 028	47.604	7. 631	1.00 29.99	A	Ň
ATOM	819 CA		133	52. 629	46.956	6. 392	1.00 31.05	Ā	Ċ
ATOM	820 CB	ASP	133	53. 147	45. 519	6.314	1.00 31.90	Α	C
ATOM	821 CG		133	54. 541	45.436	5.721	1.00 33.92	Α	C
ATOM	822 OD		133	54. 773	46.042	4.649	1.00 33.52	Α	0
ATOM	823 OD		133	55.400	44.756	6.321	1.00 35.83	A	0
ATOM	824 C	ASP	133	51.125	46.952	6.334	1.00 30.39	A	C
ATOM	825 0	ASP	133	50. 467	46. 384	7. 202	1.00 33.36	A	0
ATOM	826 N	ILE	134	50. 579	47. 598	5.315	1.00 28.05	A	
ATOM	827 CA		134	49. 144	47. 652	5. 157	1.00 25.68	A	
ATOM	828 CB		134	48. 732	48.816	4. 269	1.00 23.81 1.00 22.12	A A	
ATOM	829 CG		134	47. 221 49. 421	48. 954 50. 095	4. 289 4. 752	1.00 22.12	A	
ATOM	830 CG 831 CD		134 134	49. 421		3.846	1.00 23.04	A	
ATOM ATOM	832 C	ILE	134	48. 635		4. 524	1.00 27.46	A	
VION	00 <i>L</i> 0	1111	101	40.000	10.000	1. 051	2000 200 200		-

				(Continued)
		FΙ	G. 4-18	(00111111111111111111111111111111111111
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	833 0 ILE 834 N TYR 835 CA TYR 836 CB TYR 837 CG TYR 838 CD1 TYR 839 CE1 TYR 840 CD2 TYR 841 CE2 TYR 841 CE2 TYR 842 CZ TYR 843 OH TYR 844 C TYR 845 O TYR 846 N ASP 847 CA ASP	134       49. 171         135       47. 599         135       46. 985         135       46. 800         135       46. 276         135       47. 113         135       46. 634         135       44. 939         135       44. 444         135       45. 296         135       44. 811         135       45. 629         135       45. 341         136       45. 341         136       44. 083	45. 894       3. 521       1. 00       27. 19         45. 805       5. 127       1. 00       29. 43         44. 588       4. 628       1. 00       30. 54         43. 588       5. 772       1. 00       33. 25         42. 242       5. 343       1. 00       35. 66         41. 311       4. 731       1. 00       37. 89         40. 068       4. 319       1. 00       40. 13         41. 903       5. 535       1. 00       37. 34         40. 666       5. 126       1. 00       40. 17         39. 751       4. 518       1. 00       41. 67         38. 526       4. 105       1. 00       42. 54         44. 990       4. 057       1. 00       30. 05         45. 705       4. 704       1. 00       28. 31         44. 536       2. 841       1. 00       31. 33         44. 837       2. 168       1. 00       33. 02	(Continued)  A 0 A N A C A C A C A C A C A C A C A C A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	848 CB ASP 849 CG ASP 850 OD1 ASP 851 OD2 ASP 852 C ASP 853 O ASP 854 N LEU 855 CA LEU 856 CB LEU 857 CG LEU 858 CD1 LEU 859 CD2 LEU 860 C LEU	136       44. 323         136       43. 057         136       43. 115         136       42. 009         136       43. 019         136       42. 822         137       42. 341         137       41. 303         137       40. 445         137       41. 160         137       41. 686         137       40. 392	45. 095       -0. 146       1. 00       33. 01         45. 872       -1. 121       1. 00       31. 21         44. 500       0. 181       1. 00       34. 97         43. 797       2. 549       1. 00       35. 55         42. 810       1. 846       1. 00       36. 12         44. 040       3. 669       1. 00       38. 03         43. 150       4. 192       1. 00       40. 58         43. 892       5. 225       1. 00       40. 10         44. 413       6. 477       1. 00       39. 13         45. 257       7. 307       1. 00       37. 54         43. 243       7. 286       1. 00       38. 91	A C A O A O A O A O A O A O A O A O A O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	861 O LEU 862 N ASN 863 CA ASN 864 CB ASN 865 CG ASN 866 OD1 ASN 867 ND2 ASN 868 C ASN 869 O ASN 870 N LYS 871 CA LYS 872 CB LYS 873 CG LYS 874 CD LYS	137       40. 038         138       39. 997         138       39. 132         138       38. 537         138       37. 127         138       36. 873         138       36. 202         138       39. 884         138       39. 642         139       40. 794         139       41. 581         139       42. 510         139       41. 785         139       42. 753	41. 362       3. 225       1. 00       43. 41         43. 322       2. 141       1. 00       45. 42         42. 796       1. 093       1. 00       48. 50         43. 936       0. 264       1. 00       49. 71         44. 291       0. 697       1. 00       50. 83         44. 555       1. 871       1. 00       51. 97         44. 296       -0. 254       1. 00       52. 74         41. 824       0. 191       1. 00       49. 47         40. 619       0. 240       1. 00       50. 62         42. 346       -0. 626       1. 00       50. 26         41. 507       -1. 526       1. 00       51. 09         42. 374       -2. 382       1. 00       51. 15         43. 427       -3. 212       1. 00       53. 38         44. 331       -3. 974       1. 00       54. 25	A O A N A C A C A O A N A C A O A N A C A O A N A C A C A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	875 CE LYS 876 NZ LYS 877 C LYS 878 O LYS 879 N ARG 880 CA ARG 881 CB ARG	139 43. 550 139 44. 447 139 42. 413 139 43. 148 140 42. 288 140 43. 025 140 42. 338	43.564 -5.021 1.00 56.31 44.453 -5.817 1.00 56.39 40.528 -0.703 1.00 51.63 39.708 -1.251 1.00 51.80 40.624 0.618 1.00 51.49 39.768 1.534 1.00 51.71	A C A N A C A O A N A C A C

(Continued)

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					FI	G. 4-	19			COHUL
					1. 1.	<b>u.</b> 1				_
ATOM	882		ARG	140	40.911	38. 495	2.157	1.00 57.36	A	C
ATOM	883		ARG	140	40. 257	37. 128	2. 211	1.00 60.02	A	C N
ATOM	884	-	ARG	140	40. 936	36. 235	3.142	1. 00 62. 76 1. 00 64. 87	A A	C
ATOM	885		ARG	140	40. 633 39. 661	34. 950 34. 409	3. 294 2. 570	1.00 66.83	A	N
ATOM	886	NH1 NH2	ARG	140 140	41. 298	34. 206	4. 169	1.00 65.62	A	N
ATOM ATOM	887 888		ARG	140	44. 464	39.603	1.066	1.00 50.29	A	C
ATOM	889		ARG	140	44. 992	38. 496	1.002	1.00 50.21	A	0
ATOM	890	N	GLN	141	45.096	40.723	0.741	1.00 49.82	Α	N
ATOM	891		GLN	141	46.473	40.707	0.268	1.00 48.70	Α	C
ATOM	892	CB	GLN	141	46. 487	40.815	-1.260	1.00 50.32	A	C
ATOM	893	CG	GLN	141	47.774	40.348	-1.909	1.00 55.02	A	C
ATOM	894	CD	GLN	141	47.640	40.179	-3.413	1.00 57.33	A	C
ATOM	895	0E1	GLN	141	48. 582	39.756	-4.088	1.00 57.97 1.00 58.85	A A	O N
ATOM	896		GLN	141	46. 465	40.509 41.837	-3.947 $0.898$	1.00 58.85	A	C
ATOM	897	C	GLN GLN	141 141	47. 293 46. 761	42.880	1. 274	1.00 45.33	A	Ö
ATOM ATOM	898 899	0 N	LEU	141	48. 594	41.610	1.013	1.00 43.34	Ä	Ň
ATOM	900	CA	LEU	142	49. 505	42.578	1.605	1.00 41.50	A	C
ATOM	901	CB	LEU	142	50.638	41.824	2.296	1.00 41.17	Α	С
ATOM	902	ĊĠ	LEU	142	51.489	42.501	3.359	1.00 42.33	Α	C
ATOM	903	CD1	LEU	142	52. 443	41.463	3.922	1.00 42.24	A	C
ATOM	904	CD2		142	52. 254	43.677	2.772	1.00 42.66	A	C
ATOM	905	C	LEU	142	50.062	43. 498	0.520	1.00 40.87	A	O C
ATOM	906	0	LEU	142	50. 557	43.030	-0.506	1.00 41.57 1.00 39.20	A	N N
ATOM	907	N	ILE	143	49. 978 50. 466	44. 806 45. 789	0. 748 -0. 217	1.00 39.20	A A	C
ATOM	908 909	CA CB	ILE ILE	143 143	49. 921	47. 202	0. 104	1.00 36.58	A	č
ATOM ATOM	910	CG2	ILE	143	50. 486	48. 225	-0.874	1.00 35.56	Ä	č
ATOM	911	CG1	ILE	143	48. 398	47. 197	0.030	1.00 34.64	A	C
ATOM	912	CD1	ILE	143	47.777	48.494	0.468	1.00 37.28	Α	C
ATOM	913	C	ILE	143	51.985	45.843	-0.209	1.00 36.06	A	C
ATOM	914	0	ILE	143	52.603	45.859	0.849	1.00 36.63	A	0
ATOM	915	N	THR	144	52. 592	45. 882	-1.386	1.00 35.40	A	N
ATOM	916	CA	THR	144	54.046	45.933	-1.459	1. 00 35. 79 1. 00 35. 59	A A	C C
ATOM	917	CB	THR	144	54. 616 54. 192	44. 654 44. 592	-2.124 $-3.491$	1.00 37.13	A	ŏ
ATOM	918 919	OG1 CG2	THR THR	144 144	54. 121	43.415	-1.403	1.00 33.21	A	č
ATOM ATOM	920	CGZ	THR	144	54. 515	47. 152	-2.243	1.00 35.43	Ä	Č
ATOM	921	ŏ	THR	144	55. 700	47.311	-2.511	1.00 36.45	Α	0
ATOM	922	Ň	GLU	145	53. 577	48.015	-2.602	1.00 36.27	Α	N
ATOM	923	CA	GLU	145	53. 891	49.214	-3.369	1.00 36.32	A	C
ATOM	924	CB	GLU	145	52.962	49. 297	-4.586	1.00 38.36	A	C
ATOM	925	CG	GLU	145	53. 553	48. 748	-5.875	1.00 42.66	A	C C
ATOM	926	CD	GLU	145	54.667	49.639	-6. 418 -5. 779	1.00 45.91 1.00 45.49	A A	0
ATOM	927	OE1		145	55. 745 54. 456	49. 705 50. 283	-5. 179 -7. 476	1.00 45.49	A	0
ATOM	928 929	C	GLU GLU	145 145	54. 450 53. 775	50. 496	-2.544	1.00 45.06	A	č
ATOM ATOM	929	ŏ	GLU	145 145	52.874	50. 430	-1.715	1.00 34.22	A	ŏ
VION	900	U	GLU	1.40	0B. 017	55.500	2. 110			

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			FIG. 4-20	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	931 N GLU 932 CA GLU 933 CB GLU 934 CG GLU 935 CD GLU 936 OE1 GLU 937 OE2 GLU 938 C GLU 939 O GLU 939 O GLU 940 N ARG 941 CA ARG 942 CB ARG 942 CB ARG 943 CG ARG 944 CD ARG 945 NE ARG 946 CZ ARG 947 NH1 ARG 948 NH2 ARG 949 C ARG 950 O ARG 951 N ILE 952 CA ILE 953 CB ILE 953 CB ILE 954 CG2 ILE 955 CG1 ILE 957 C ILE 958 O ILE 957 C ILE 957 C ILE 958 O ILE 957 C ILE 958 O ILE 957 C ILE 958 O ILE 957 C ILE 958 CG PRO 961 CA PRO 962 CB PRO 961 CA PRO 962 CB PRO 963 CG PRO 964 C PRO 965 O PRO 966 N ASN 967 CA ASN 968 CB ASN 969 CG ASN 970 OD1 ASN 971 ND2 ASN 971 ND2 ASN 971 ND2 ASN 973 O ASN 974 N ASN 975 CA ASN 976 CB ASN	146 146 146 146 146 146 147 147 147 147 147 147 147 148 148 148 149 149 149 149 149 149 150 150 150 151 151	55. 287       51. 638       0. 013       1. 00       30. 84         55. 185       51. 357       1. 437       1. 00       29. 94         55. 992       50. 107       1. 774       1. 00       31. 91         55. 376       48. 821       1. 262       1. 00       33. 35         55. 999       47. 649       1. 963       1. 00       34. 66         57. 415       47. 539       1. 650       1. 00       37. 64         58. 271       46. 812       2. 356       1. 00       39. 76         57. 844       46. 143       3. 421       1. 00       40. 68       46         59. 546       46. 737       1. 987       1. 00       39. 79       48         55. 623       52. 483       2. 363       1. 00       28. 99       48         55. 066       52. 486       3. 568       1. 00       26. 79       48         55. 430       53. 484       4. 555       1. 00       25. 21       48         55. 096       54. 201       6. 940       1. 00       25. 09       48         55. 107       53. 642       6. 533       1. 00       24. 99       49         57. 240       52. 014       5. 068       1	N C C C C C O O C C C N C N N C C C C C
ATOM ATOM ATOM	977 CG ASN 978 OD1 ASN 979 ND2 ASN	151 151 151	64.360 52.678 10.219 1.00 36.24	A C A O A N

C

A

1.00 21.88

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**ATOM** 

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(Continued) FIG. 4-21 C 11.111 1.00 28.16 Α 151 60.734 55. 230 980 C ASN **ATOM** 1.00 28.85 0 56.400 11.112 Α 61.118 **ASN** 151 981 0 **ATOM** N 1.00 26.20 Α 54.895 11.064 59.450 152 **ATOM** 982 N THR C 11.041 1.00 24.74 55.911 Α 152 58.415 **ATOM** 983 CA THR C 1.00 25.27 10.399 Α 57.119 55.389 152 984 CB THR **ATOM** 1.00 24.18 0 55.125 9.009 Α 152 57.351 OG1 THR **ATOM** 985 56.426 10.538 1.00 23.99 A C 56.004 CG2 THR 152 **ATOM** 986 1.00 23.46 C 12.474 Α 56.319 58.139 **ATOM** 987 C THR 152 1.00 25.16 0 Α 55.476 13.340 152 57.933 THR **ATOM** 988 0 57.620 12.721 1.00 22.30 Α N 58.134 153 **ATOM** 989 N **GLN** 1.00 20.67 C 58.129 14.063 Α GLN 153 57.916 **ATOM** 990 CA C Α 1.00 19.09 58.501 59.534 14.161 GLN 153 **ATOM** 991 CB  $\mathbb{C}$ 59.543 13.906 1.00 13.74 A 60.002 GLN 153 **ATOM** CG 992 C 60.853 13.331 1.00 14.57 Α 60.495 **ATOM** 993 CD GLN 153 Α 0 61.260 1.00 12.70 60.089 12. 233 OE1 GLN 153 **ATOM** 994 N 61.375 14.066 1.00 10.81 61.524 Α NE2 GLN 153 995 **ATOM** C 14.495 1.00 20.53 Α 58.112 56.460 **ATOM** 996 C **GLN** 153 0 1.00 19.36 Α 56.163 57.979 15.683 **GLN** 153 **ATOM** 997 0 58.229 13.531 1.00 20.90 A N 55.556 TRP 154 **ATOM** 998 N 1.00 21.02 C 58.213 13.831 Α 54.131 CA TRP 154 **ATOM** 999 C 1.00 22.43 Α 59.498 14.550 53.733 TRP 154 **ATOM** 1000 CB 1.00 21.90 C 59.530 14.923 Α 52.312 **ATOM** 1001 CG TRP 154 C 15.976 1.00 22.22 A 51.695 58.791 CD2 TRP 154 **ATOM** 1002 1.00 23.62 C 59.087 15.942 Α 50.315 CE2 TRP 154 1003 **ATOM** 16.947 1.00 22.95 C 52.173 57.902 Α CE3 TRP 154 **ATOM** 1004 1.00 24.44 C 60.228 14.308 A CD1 TRP 154 51.321 **ATOM** 1005 1.00 24.78 N 50.112 59.968 14.912 Α **ATOM** 1006 NE1 TRP 154 58.526 16.842 1.00 22.94 A C 49.404 CZ2 TRP 154 1007 **ATOM** 1.00 22.07  $\mathbf{c}$ 17.847 57.339 A CZ3 TRP 51.263 1008 154 **ATOM** C 1.00 23.43 A 1009 CH2 TRP 154 49.897 57.656 17.784 **ATOM** C 53. 291 58.054 12.576 1.00 21.43 A 154 1010 C TRP **ATOM** 11.518 1.00 22.33 0 58.572 A 53.642 154 **ATOM** 1011 0 TRP 1.00 21.97 Α N 52.173 57.343 12.703 1012 N VAL 155 **ATOM** C 11.579 1.00 20.81 51.267 57.103 Α 1013 CA VAL 155 **ATOM** C 10.840 1.00 19.96 51.642 55.797 Α VAL 155 1014 CB **ATOM** C 11.842 1.00 21.34 A 51.835 54.687 CG1 VAL 155 **ATOM** 1015 C 9.833 1.00 20.23 CG2 VAL 50.562 55.414 Α 155 1016 **ATOM** C 1.00 21.39 49.840 57.004 12.104 Α 155 1017 C VAL **ATOM** 13.162 1.00 21.74 A 0 155 49.601 56.425 **ATOM** 1018 VAL 0 1.00 20.70 N 48.898 57.576 11.364 A THR 1019 N 156 **ATOM** 11.768 1.00 21.67 C 156 47.504 57.557 Α CA THR 1020 **ATOM** C 1.00 22.79 12.716 A 47.189 58.736 CB THR 156 **ATOM** 1021 0 1.00 25.50 45.771 12.890 A 156 58.848 1022 OG1 THR **ATOM** 47.707 1.00 22.46 1.00 22.20 C 12.145 156 60.031 Α 1023 CG2 THR **ATOM** C A 10.577 156 46.558 57.633 1024 THR **ATOM** 0 1.00 22.72 46.861 58.276 9.577 A 1025 THR 156 0 **ATOM** 1.00 21.38 Α N 10.689 56.966 TRP 157 45.413 **ATOM** 1026 N 1.00 21.45 C A 56.985 9.627 1027 CA TRP 157 44.423 **ATOM** 

SUBSTITUTE SHEET (RULE 26)

55.825

9.765

43.426

				FI	G. 4	- 9 9			(Con	tinued)
ATOM	1029	CG TR		43. 995	54. 450	9. 599	1.00 20.88	A	С	
ATOM	1030	CD2 TR		44. 315	53. 800	8.364	1.00 18.96	A	C	
ATOM ATOM	1031 1032	CE2 TR		44. 843 44. 208	52. 531 54. 168	8.686 7.019	1.00 19.67 1.00 17.93	A A	C C	
ATOM	1032	CD1 TR		44. 328	53. 571	10. 592	1.00 20.82	A	Č	
ATOM	1034	NE1 TR		44. 838	52.417	10.052	1.00 21.01	A	N	
ATOM	1035	CZ2 TR		45. 265	51.626	7. 708	1.00 19.12	A	Č	
ATOM	1036	CZ3 TR	P 157	44.627	53.267	6.046	1.00 19.76	Α	С	
ATOM	1037	CH2 TR		45.149	52.011	6.397	1.00 19.30	Α	С	
ATOM	1038	C TR		43.650	58. 276	9.801	1.00 23.03	A	C	
ATOM	1039	0 TR		43. 750	58. 917	10.843	1.00 25.03	A	0	
ATOM ATOM	1040 1041	N SE CA SE		42.889	58.663	8.784	1.00 23.17 1.00 23.44	A	N	
ATOM	1041	CA SE		42.064 41.667	59. 855 60. 362	8. 889 7. 502	1.00 23.44	A A	C C	
ATOM	1042	OG SE		41. 208	59. 311	6.679	1.00 23.84	A	0	
ATOM	1044	C SE		40. 845	59.377	9.678	1.00 23.86	A	Č	
ATOM	1045	0 SE		40.613	58.176	9.781	1.00 24.35	A	ŏ	
ATOM	1046	N PR		40.056	60.301	10.247	1.00 24.17	Α	N	
ATOM	1047	CD PR		40. 136	61.762	10.114	1.00 24.24	A	C	
ATOM	1048	CA PR		38. 876	59. 922	11.029	1.00 23.40	A	C	
ATOM	1049	CB PRO		38. 270	61.264	11.419	1.00 23.45	A	C	
ATOM ATOM	1050 1051	CG PRO		39. 427	62. 214 59. 090	11.353	1.00 24.19	A	C	
ATOM	1051	0 PR		37. 901 37. 191	58. 248	10. 224 10. 771	1.00 25.36 1.00 27.14	A A	C 0	
ATOM	1053	N VAI		37. 878	59. 334	8. 919	1.00 27.14	A	N	
ATOM	1054	CA VA		36. 977	58.640	8.014	1.00 23.99	A	Č	
ATOM	1055	CB VA		35. 784	59.545	7.689	1.00 24.54	A	Č	
ATOM	1056	CG1 VA		35.066	59.064	6.449	1.00 26.50	Α	C	
ATOM	1057	CG2 VAI		34. 834	59. 559	8.875	1.00 26.15	Α	C	
ATOM	1058	C VAI		37. 679	58. 218	6. 730	1.00 23.78	A	C	
ATOM ATOM	1059 1060	O VAI N GLY		38.570	58.908	6. 245	1.00 24.51	A	0	
ATOM	1061	CA GL		37. 268 37. 876	57. 080 56. 579	6.181 4.962	1.00 24.05 1.00 22.93	A A	N C	•
ATOM	1062	C GL		39. 121	55. 786	5. 286	1.00 22.93	A	C	
ATOM	1063	0 GL		39. 144	55.045	6. 269	1.00 24.24	A	Ö	
ATOM	1064	N HIS		40.164	55.950	4.476	1.00 25.01	Ä	Ň	
ATOM	1065	CA HIS		41.423	55. 239	4.695	1.00 25.86	A	C	
ATOM	1066	CB HIS		41.419	53.923	3.920	1.00 26.04	Α	С	
ATOM	1067	CG HIS		41.075	54.087	2. 475	1.00 27.52	A	Ċ	
ATOM	1068	CD2 HIS		41.614	54.875	1.515	1.00 27.58	A	C	
ATOM ATOM	1069 1070	ND1 HIS		40. 039 39. 956	53. 402 53. 764	1.874 0.606	1.00 27.77 1.00 28.51	A	N	
ATOM	1071	NE2 HIS		40. 900	54.656	0.363	1.00 28.31	A A	C N	
ATOM	1072	C HIS		42.660	56.053	4. 305	1.00 25.44	A	C	
ATOM	1073	0 HIS		43.636	55. 501	3. 794	1.00 24.38	A	ŏ	
ATOM	1074	N LYS	3 163	42.609	57.364	4.527	1.00 24.47	Α	N	
ATOM	1075	CA LYS		43. 751	58. 221	4. 224	1.00 23.45	A	C	
ATOM	1076	CB LYS		43. 372	59. 701	4. 273	1.00 21.75	A	C	
ATOM	1077	CG LYS	5 163	42. 528	60.216	3. 130	1.00 21.55	Α	C	

1126

**ATOM** 

CH2 TRP

168

10/522750

C

Α

1.00 22.74

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(Continued) FIG. 4-23 C 1.00 20.23 61.706 3.335 42. 281 LYS 163 **ATOM** 1078 CD C 2.228 1.00 18.07 62.316 A LYS 163 41.464 1079 CE **ATOM** N 41.315 1.00 20.95 63.778 2.422 Α 163 1080 NZ LYS **ATOM** 1.00 23.44 A C 44.781 57.961 5.309 LYS 163 1081 C **ATOM** 57.600 6.433 1.00 23.42 Α 0 44.425 LYS 163 **ATOM** 1082 0 1.00 23.11 N 58.146 4.979 Α 46.053 1083 N LEU 164 **ATOM** 1.00 23.65 C Α LEU 164 47.117 57.937 5.950 CA 1084 **ATOM** 56.773 5.524 1.00 24.35 A C 48.014 164 LEU **ATOM** 1085 CB C 1.00 25.57 5.848 A 47.551 55.351 1086 CG LEU 164 **ATOM**  $C \\ C \\ C$ 1.00 25.59 Α 5.219 CD1 LEU 164 48.519 54.349 1087 **ATOM** 47.497 55.162 7.359 1.00 25.62 A 164 CD2 LEU 1088 **ATOM** 1.00 23.21 59.182 6.120 A 47.970 LEU 164 **ATOM** 1089 C 5.177 1.00 24.34 0 Α 59.943 ATOM 48.175 0 LEU 164 1090 59.383 1.00 21.88 N 7.335 Α 48.456 1091 N **ALA** 165 **ATOM** 1.00 21.58 C 60.508 7.649 A 165 49.319 ALA **ATOM** 1092 CA  $_{\rm C}^{\rm C}$ 1.00 21.77 61.583 8.376 Α 48.548 1093 ALA 165 **ATOM** CB 59.953 1.00 22.07 8.545 Α 50.406 165 1094 C **ALA ATOM** 1.00 22.91 0 50.115 59.285 9.537 A **ATOM** 1095 0 **ALA** 165 1.00 22.02 N 60.208 8.201 A N **TYR** 166 51.661 **ATOM** 1096 52.745 C 59.697 9.024 1.00 21.73 Α **ATOM** 1097 CA TYR 166 1.00 22.38 C 58.319 8.520 Α 166 53.185 1098 TYR **ATOM** CB  $\begin{array}{c} C \\ C \\ C \\ C \end{array}$ 58.315 7.141 1.00 22.11 Α 53.814 **ATOM** CG TYR 166 1099 6.964 1.00 21.28 1.00 22.05 58.661 55.148 Α CD1 TYR 166 **ATOM** 1100 55.733 58.638 5.704 Α 1101 CE1 TYR 166 **ATOM** 1.00 20.67 Α 166 53.074 57.949 6.015 **ATOM** CD2 TYR 1102 57.923 4.753 1.00 20.02 Α C 53.648 166 CE2 TYR **ATOM** 1103 Ċ 1.00 21.75 58.268 4.603 A 54.981 ATOM 1104 CZTYR 166 1.00 20.77 0 Α **ATOM** 1105 OH TYR 166 55.566 58.252 3.352 C 53.927 60.643 9.057 1.00 21.64 Α 166 C **TYR ATOM** 1106 1.00 21.61 0 61.464 8.157 Α 54.108 **TYR** 166 **ATOM** 1107 0 1.00 20.28 N Α 60.529 10.111 **ATOM** 1108 N VAL 167 54.722 55.886 61.371 CA VAL 167 10.264 1.00 19.16 Α C 1109 **ATOM** C VAL 55.924 62.011 11.644 1.00 19.56 Α 167 **ATOM** 1110 CB Α C 1.00 18.58 57.103 62.984 11.731 167 **ATOM** 1111 CG1 VAL 62.713 C 167 54.609 11.916 1.00 18.36 Α CG2 VAL **ATOM** 1112 C 1.00 20.06 60.537 10.078 Α 1113 VAL 167 57.135 **ATOM** C 59.474 10.679 1.00 21.80 Α 0 57.287 167 **ATOM** 1114 0 VAL 1.00 19.65 Α N 58.030 61.023 9.233 TRP 1115 N 168 **ATOM** 1.00 19.61 C 8.964 Α 168 59.268 60.320 CA TRP **ATOM** 1116 1.00 20.07 7.646 Α C 59. 164 59.558 **ATOM** 1117 CB TRP 168 Ċ 168 60.387 58.772 7.353 1.00 23.12 Α TRP CG **ATOM** 1118 C 6.300 1.00 21.38 Α 168 61.319 59.011 1119 CD2 TRP **ATOM** Č 6.436 1.00 21.58 Α 168 62.353 58.061 1120 CE2 TRP **ATOM** CE3 TRP C 1121 61.382 59.936 5.256 1.00 21.74 Α 168 **ATOM** 57.712 60.873 8.066 1.00 22.86 C Α 168 1122 **ATOM** 1.00 21.54 N 62.056 57.281 7.521 A NE1 TRP **ATOM** 1123 168  $\mathbf{c}$ 1.00 23.71 A CZ2 TRP 168 63.445 58.012 5.563 1124 **ATOM** C 59.889 4.386 1.00 23.21 A CZ3 TRP 168 62.468 1125 ATOM

63.484

58.934

4.546

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								(Continued)
			FIC	G. 4-	- 24			
ATOM ATOM ATOM ATOM		TRP 16 TRP 16 ASN 16 ASN 16	60. 331 61. 452 62. 589	61. 327 62. 319 61. 072 61. 969	8. 906 8. 187 9. 682 9. 732	1.00 19.17 1.00 19.01 1.00 19.26 1.00 21.05	A A A	C O N C
ATOM ATOM ATOM ATOM ATOM			64. 056 64. 410 64. 255	61. 902 60. 565 60. 196 59. 832 63. 394	8. 417 8. 217 7. 097 9. 307 10. 007	1.00 23.39 1.00 26.24 1.00 29.51 1.00 27.22 1.00 19.72	A A A A	C C O N C
ATOM ATOM ATOM ATOM	1136 O 1137 N 1138 CA 1139 CB	ASN 16 ASN 17 ASN 17 ASN 17	62. 582 61. 182 60. 654 61. 806	64. 344 63. 522 64. 817 65. 679	9. 378 10. 938 11. 354 11. 887	1.00 19.61 1.00 19.01 1.00 18.95 1.00 19.76	A A A	O N C C
ATOM ATOM ATOM ATOM ATOM	1141 OD1 1142 ND2 1143 C		62. 690 62. 362 59. 828	65. 193 64. 025 66. 092 65. 621 66. 815	13. 239 13. 404 14. 210 10. 341 10. 541	1.00 21.23 1.00 23.29 1.00 21.16 1.00 18.94 1.00 17.99	A A A A	C O N C O
ATOM ATOM ATOM ATOM ATOM	1147 CB	ASP 17 ASP 17 ASP 17 ASP 17 ASP 17	58. 566 59. 271 60. 353	64. 974 65. 643 65. 696 66. 750 67. 876	9. 264 8. 254 6. 898 6. 836 7. 307	1.00 18.46 1.00 18.64 1.00 18.52 1.00 17.77 1.00 17.30	A A A A	N C C C O
ATOM ATOM ATOM ATOM	1150 OD2 1151 C 1152 O 1153 N	ASP 17 ASP 17 ASP 17 ILE 17	61. 436 57. 255 57. 182 56. 225	66. 454 64. 888 63. 690 65. 585	6. 294 8. 099 8. 382 7. 632	1. 00 · 24. 17 1. 00 · 20. 36 1. 00 · 21. 44 1. 00 · 19. 52	A A A	0 C 0 N
ATOM ATOM ATOM ATOM ATOM	1154 CA 1155 CB 1156 CG2 1157 CG1 1158 CD1	ILE 17	2 53. 813 2 52. 443 2 54. 053	64. 983 65. 966 65. 329 66. 394 67. 538	7. 466 7. 899 7. 734 9. 350 9. 795	1.00 18.52 1.00 18.99 1.00 17.69 1.00 18.78 1.00 18.44	A A A A	C C C C
ATOM ATOM ATOM ATOM ATOM	1159 C 1160 O 1161 N 1162 CA		2 54. 609 2 54. 905 3 54. 017 3 53. 645	64. 539 65. 246 63. 358 62. 808 61. 612	6. 044 5. 085 5. 921 4. 625 4. 256	1.00 18.52 1.00 19.61 1.00 17.61 1.00 16.59 1.00 14.94	A A A A	C O N C
ATOM ATOM ATOM ATOM	1164 CG 1165 CD1 1166 CE1 1167 CD2	TYR 17 TYR 17 TYR 17 TYR 17	55. 983 56. 815 58. 170 56. 541	61. 921 61. 978 62. 271 62. 165	4. 121 5. 237 5. 100 2. 870	1.00 15.66 1.00 16.67 1.00 16.34 1.00 15.99	A A A	C C C C
ATOM ATOM ATOM ATOM ATOM	1168 CE2 1169 CZ 1170 OH 1171 C 1172 O	TYR 17 TYR 17 TYR 17 TYR 17 TYR 17	58. 685 60. 004 52. 198	62. 460 62. 512 62. 837 62. 341 62. 008	2. 727 3. 838 3. 678 4. 679 5. 748	1.00 13.89 1.00 15.53 1.00 21.66 1.00 17.34 1.00 14.56	A A A A	C C O C
ATOM ATOM ATOM	1173 N	VAL 17 VAL 17 VAL 17	4 51. 552 4 50. 174	62. 306 61. 865 63. 060	3. 518 3. 444 3. 319	1.00 18.18 1.00 19.46 1.00 18.88	A A A	N C C

(Continued)

				FIG. 4-25	(Cor
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212	CG1 VAL CG2 VAL C VAL O VAL N LYS CA LYS CB LYS CC LYS CC LYS NZ LYS C LYS N ILE CA ILE CB ILE CG1 ILE CG2 ILE CG1 ILE CG3 ILE CG4 GLU CG GLU CG GLU CG GLU CCB GLU CCB GLU CCB GLU CCB GLU CCCB GLU CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	174 174 174 175 175 175 175 175 175 175 176 176 176 176 176 177 177 177 177 177	47. 591     53. 000     0. 814     1. 00     29. 97     7. 66. 796       46. 796     51. 902     1. 509     1. 00     30. 05     7. 76. 76. 76. 76. 76. 76. 76. 76. 76. 7	CCONCCCCNCONCCCCCONCCCCOOCONCCCC
ATOM ATOM ATOM ATOM	1210 1211 1212 1213	CG PRO C PRO O PRO N ASN	178 178 178 179	48. 633 52. 436 -0. 150 1. 00 29. 50 49. 727 52. 062 0. 269 1. 00 31. 00 48. 308 52. 379 -1. 436 1. 00 28. 20	A C A O A N
ATOM ATOM ATOM ATOM ATOM	1214 1215 1216 1217 1218	CA ASN CB ASN CG ASN OD1 ASN ND2 ASN	179 179 179 179 179	48. 568 50. 805 -3. 299 1. 00 26. 23 47. 474 51. 409 -4. 144 1. 00 25. 74 46. 494 51. 948 -3. 626 1. 00 26. 59 47. 635 51. 329 -5. 452 1. 00 26. 72	A C A C A O A N
ATOM ATOM ATOM ATOM ATOM ATOM	1219 1220 1221 1222 1223 1224	C ASN O ASN N LEU CA LEU CB LEU CG LEU	179 179 180 180 180 180	50.818 52.670 -4.004 1.00 28.42 49.289 54.115 -3.231 1.00 26.68 49.805 55.200 -4.050 1.00 26.11 48.658 56.125 -4.456 1.00 24.86	A C A O A N A C A C
VION	1 4 4 4	00 110	100	TI. UET UU. 010 0100 1100 1100 1	,

										(Continued)
					FΙ	G. 4	- 26			(001101111010101)
ATOM	1225	CD1	LEU	180	46. 604	56. 359	-5.856	1.00 23.58	Α	С
ATOM	1226		LEU	180	48. 224	54. 503	-6.328	1.00 23.36	A	Č
ATOM	1227	C	LEU	180	50. 938	55. 996	-3.391	1.00 25.78	A	Č
ATOM	1228	Ö	LEU	180	51. 185	55. 883	-2. 185	1.00 23.62	A	Ö
ATOM	1229	N	PRO	181	51.669	56. 789	-4. 194	1.00 24.96	A	N
ATOM	1230	CD	PRO	181	51. 687	56. 842	-5.667	1.00 23.41	A	Č
ATOM	1231	CA	PRO	181	52. 766	57. 580	-3.634	1.00 23.41	A	č
ATOM	1232	CB	PRO	181	53. 403	58. 217	-4.870	1.00 22.16	A	č
ATOM	1233	CG	PRO	181	53. 124	57. 201	-5.944	1.00 22.72	A	Č
ATOM	1234	C	PRO	181	52. 216	58. 613	-2.667	1.00 22.12	A	Č
ATOM	1234	0	PRO	181	51.144	59. 173	-2.880	1.00 22.13	A	Ö
ATOM	1236	N	SER	182	52. 954	58. 864	-2.600	1.00 21.65	A	N N
ATOM	1237	CA	SER	182	52. 516	59. 829	-0.620	1.00 21.03	A	C
ATOM	1238	CB	SER	182	52. 999	59. 404	0. 765	1.00 20.30	A	C
ATOM	1239	OG	SER	182	54. 408	59. 345	0. 103	1.00 22.01	A	0
ATOM	1240	C	SER	182	53. 034	61. 222	-0.947	1.00 23.33	A	C
ATOM	1240	0	SER	182	54. 003	61.380	-1.687	1.00 13.03	A	Ö
ATOM	1242	N	TYR	183	52. 366	62. 233	-0.402	1.00 17.14	A	N
ATOM	1242	CA	TYR	183	52. 786	63.606	-0.611	1.00 17.07	A	Č
ATOM	1244	CB	TYR	183	51.595	64. 523	-0.832	1.00 13.17	A	Č
ATOM	1245	CG	TYR	183	50. 676	64. 028	-1.905	1.00 12.03	A	Č
ATOM	1246		TYR	183	49. 729	63.052	-1.625	1.00 12.34	A	Č
ATOM	1247		TYR	183	48. 916	62. 554	-2.610	1.00 11.95	A	Č
ATOM	1248		TYR	183	50. 782	64. 494	-3.214	1.00 11.33	A	Č
ATOM	1249		TYR	183	49. 961	63. 990	-4.218	1.00 10.27	A	Č
ATOM	1250	CZ	TYR	183	49. 032	63.019	-3.903	1.00 10.59	A	Č
ATOM	1251	OH	TYR	183	48. 205	62.494	-4.867	1.00 14.71	A	Ö
ATOM	1252	C	TYR	183	53. 532	64.067	0.617	1.00 15.72	A	č
ATOM	1253	ŏ	TYR	183	53. 208	63.679	1.740	1.00 17.69	A	Ö
ATOM	1254	Ň	ARG	184	54. 540	64. 893	0. 386	1.00 14.64	A	N
ATOM	1255	CA	ARG	184	55. 342	65. 436	1.452	1.00 14.04	A	C .
ATOM	1256	CB	ARG	184	56. 786	65. 593	0.970	1.00 14.10	A	Č
ATOM	1257	CG	ARG	184	57. 725	66. 203	1.989	1.00 20.48	A	č
ATOM	1258	CD	ARG	184	59. 170	65. 912	1.629	1.00 20.61	A	č
ATOM	1259	NE	ARG	184	60. 095	66. 485	2.598	1.00 20.21	A	Ň
ATOM	1260	CZ	ARG	184	61.407	66. 288	2. 583	1.00 19.46	A	č
ATOM	1261	NH1		184	61.954	65. 529	1.650	1.00 17.13	Ä	Ň
ATOM	1262		ARG	184	62. 170	66.853	3. 506	1.00 20.35	Ä	N
ATOM	1263	C	ARG	184	54.736	66. 779	1.820	1.00 14.10	Ä	Ċ
ATOM	1264	0	ARG	184	54.569	67.650	0.972	1.00 14.71	Ä	Ö
ATOM	1265	N	ILE	185	54. 390	66. 937	3.089	1.00 15.27	Ä	N
ATOM	1266	CA	ILE	185	53.804	68. 175	3. 572	1.00 14.44	Ä	Ċ
ATOM	1267	CB	ILE	185	52. 786	67. 884	4.692	1.00 16.20	Ä	č
ATOM	1268		ILE	185	52.091	69.175	5. 115	1.00 14.78	A	č
ATOM	1269		ILE	185	51.770	66.842	4. 202	1.00 15.25	Ä	Č
ATOM	1270		ILE	185	51.021	67.250	2.947	1.00 12.00	A	Č
ATOM	1271	C	ILE	185	54.847	69.172	4.091	1.00 14.33	Α	C
<b>ATOM</b>	1272	0	ILE	185	54.647	70.377	3.994	1.00 14.95	A	Ō
ATOM	1273	N	THR	186	55.950	68.676	4.646	1.00 14.38	Α	N

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					FΙ	G. 4	- 27			(Continued)
ATOM	1274	CA	THR	186	56. 995	69. 555	5. 169	1.00 15.05	A	C
ATOM	1275	CB	THR	186	57.051	69.549	6. 717 7. 181	1.00 15.72 1.00 18.48	A A	C 0
ATOM ATOM	1276 1277		THR THR	186 186	57. 308 55. 734	68. 218 70. 060	7. 323	1.00 13.48	A	Č
ATOM	1278	C	THR	186	58. 384	69. 190	4.663	1.00 17.06	A	č
ATOM	1279	ŏ	THR	186	58.643	68. 055	4. 262	1.00 19.33	A	Õ
ATOM	1280	Ň	TRP	187	59. 275	70.174	4.696	1.00 18.28	Α	N
ATOM	1281	CA	TRP	187	60.655	70.020	4.253	1.00 16.04	Α	C
<b>ATOM</b>	1282	CB	TRP	187	60.843	70.734	2.915	1.00 13.96	Α	C
ATOM	1283	CG	TRP	187	60.392	69.949	1.736	1.00 14.75	A	C
ATOM	1284	CD2		187	59.055	69.841	1. 234	1.00 15.37	A	C
ATOM	1285	CE2		187	59.093	68. 954	0.135	1.00 15.22	A	C
ATOM	1286	CE3		187	57. 829	70.405	1.606	1.00 12.92	A	C C
ATOM	1287 1288	CD1 NE1		187 187	61.165 60.392	69. 149 68. 549	0. 941 -0. 020	1.00 14.94 1.00 15.60	A A	N N
ATOM ATOM	1289	CZ2		187	57. 949	68.616	-0.520	1.00 13.00	A	C
ATOM	1290	CZ3		187	56. 692	70.074	0.881	1.00 16.75	A	č
ATOM	1291	CH2		187	56. 758	69. 185	-0.211	1.00 17.84	A	Č
ATOM	1292	C	TRP	187	61.607	70.620	5. 292	1.00 15.71	A	C
ATOM	1293	0	TRP	187	62.804	70.725	5.053	1.00 19.54	Α	0
ATOM	1294	N	THR	188	61.077	70.999	6.449	1.00 13.19	Α	N
ATOM	1295	CA	THR	188	61.892	71.605	7.493	1.00 11.35	Α	С
ATOM	1296	CB	THR	188	61.122	72.737	8. 180	1.00 11.04	A	C
ATOM	1297			188	59.835	72. 253	8. 587	1.00 9.11	A	0
ATOM	1298		THR	188	60. 955	73. 920	7. 232	1.00 7.35	A	C
ATOM	1299	C	THR	188	62. 384	70.642	8.572	1.00 12.10	A	C
ATOM ATOM	1300 1301	O N	THR GLY	188 189	63. 198 61. 881	71.016 69.412	9. 415 8. 552	1.00 9.49 1.00 14.44	A A	O N
ATOM	1301	CA	GLY	189	62. 296	68. 426	9. 538	1.00 14.44	A	C
ATOM	1302	C	GLY	189	63. 794	68. 421	9. 782	1.00 15.86	A	č
ATOM	1304	ŏ	GLY	189	64. 584	68. 685	8. 881	1.00 17.65	Ä	ŏ
ATOM	1305	Ň	LYS	190	64. 196	68.117	11.004	1.00 17.28	Ā	N
ATOM	1306		LYS	190	65.612			1.00 18.87	Α	C
ATOM	1307		LYS	190	66.189	69.512	11.264	1.00 20.03	Α	С
ATOM	1308	CG	LYS	190	67. 679	69.588	11.472	1.00 22.58	A	C
ATOM	1309	CD	LYS	190	68. 181	70.997	11. 256	1.00 27.62	A	C
ATOM	1310	CE	LYS	190	69. 698	71.060	11.386	1.00 31.27	A	C
ATOM	1311	NZ	LYS	190	70. 207	72.451	11. 273	1.00 35.57	A	N C
ATOM	1312 1313	C 0	LYS LYS	190 190	65. 799 65. 384	67. 530 68. 134	12. 747 13. 737	1.00 18.55 1.00 18.41	A A	0
ATOM ATOM	1314	N	GLU	190	66. 426	66.362	12.811	1.00 18.41	A	N N
ATOM	1315	CA	GLU	191	66. 674	65.661	14.062	1.00 21.70	A	Ċ
ATOM	1316	CB	GLU	191	67. 796	64.653	13.851	1.00 23.41	A	č
ATOM	1317	ĊĠ	GLU	191	67. 894	63. 598	14. 937	1.00 29.95	A	C
ATOM	1318	CD	GLU	191	69.018	62.605	14.689	1.00 30.89	Α	C
ATOM	1319	0E1		191	68.970	61.497	15. 262	1.00 33.70	A	0
ATOM	1320		GLU	191	69. 952	62.932	13.929	1.00 33.21	A	0
ATOM	1321	C	GLU	191	67.015	66.583	15. 236	1.00 21.53	A	C
ATOM	1322	0	GLU	191	67. 930	67.397	15. 156	1.00 22.21	Α	0

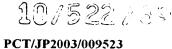
1371

**ATOM** 

N

ILE

198



Α

N

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(Continued) FIG. 4-28 1.00 21.17 16.320 N 66.451 Α **ASP** 192 66.262 ATOM 1323 N C 17.525 1.00 22.27 192 66.470 67.246 Α **ASP ATOM** 1324 CA C 18.182 1.00 23.92 Α 67.810 66.880 **ASP** 192 **ATOM** 1325 CB C 65.400 18.510 1.00 25.20 67.922 A **ATOM** 1326 CG ASP 192 1.00 25.70 64.775 18.850 0 OD1 ASP 192 66.891 A 1327 **ATOM** 1.00 26.25 69.049 64.866 18.438 A 0 OD2 ASP 192 1328 **ATOM** 68.759 17.341 1.00 21.93 C 66.425 A **ASP** 192 **ATOM** 1329 C 1.00 22.78 69.489 18.145 A 0 66.998 **ASP** 192 **ATOM** 1330 0 N 65.748 69.242 16.304 1.00 21.66 Α **ATOM** 1331 ILE 193 N 65.685 70.684 16.071 1.00 20.08 A C 193 **ATOM** 1332 CA ILE 1.00 20.73 C 15.039 A 71.113 66.747 **ATOM** 1333 CB ILE 193 C 72.567 14.677 1.00 18.91 Α 1334 CG2 ILE 193 66.570 **ATOM** C 68.142 70.889 15.624 1.00 22.58 A **ATOM** 1335 CG1 ILE 193 C 69.263 71.198 14.671 1.00 26.43 A 193 **ATOM** CD1 ILE 1336 C 1.00 19.15 71.172 15.615 A ATOM 193 64.318 1337 C ILE 16.220 0 63.736 72.068 1.00 19.55 193 Α 1338 0 ILE **ATOM** 70.594 14.534 1.00 19.04 Α N 63.814 194 **ATOM** 1339 N ILE 70.967 1.00 17.41 C 194 62.506 14.021 Α **ATOM** 1340 CA ILE 62.596 71.547 12.587 1.00 18.89 A C **ATOM** 1341 CB ILE 194 C 71.944 12.095 1.00 16.97 194 61.209 Α CG2 ILE **ATOM** 1342 72.750 1.00 19.26  $_{\rm C}^{\rm C}$ CG1 ILE 12.553 Α 194 63.551 **ATOM** 1343 13.395 63.118 73.936 1.00 16.78 CD1 ILE 194 Α **ATOM** 1344 C 69.702 13.969 1.00 18.22 ILE 194 61.663 A **ATOM** 1345 C 1.00 17.31 0 68.713 13.349 Α ILE 62.066 **ATOM** 1346 0 194 1.00 17.31 60.511 69.726 14.642 N Α N **TYR** 195 **ATOM** 1347 14.639 1.00 16.19 C 59.592 68.593 A **ATOM** 1348 CA **TYR** 195 C 1.00 17.03 **TYR** 195 59.338 68.071 16.053 A **ATOM** 1349 CB 67.776 16.893 1.00 17.58 TYR 60.560 Α CG 195 **ATOM** 1350 Ċ 17.286 1.00 18.28 68.802 A 195 61.427 ATOM 1351 CD1 TYR C 68.558 18.145 1.00 16.45 **ATOM** 1352 CE1 TYR 195 62.485 Α 60.799 CD2 TYR 195 66.490 17.377 1.00 15.00 A 1353 **ATOM** C 66.237 1.00 15.14 61.859 18.240 Α 195 CE2 TYR **ATOM** 1354 C 1.00 17.41 Α 62.694 67.275 18.624 **ATOM** 1355 CZ **TYR** 195 1.00 21.26 0 TYR 195 63.725 67.041 19.515 Α **ATOM** 1356 0H C 1.00 16.29 195 58.242 69.016 14.047 Α 1357 C TYR **ATOM** 69.902 1.00 15.85 Α 0 14.586 1358 **TYR** 195 57.574 **ATOM** 0 12.942 1.00 15.27 N 57.851 68.380 A 1359 N ASN 196 ATOM 12.286 1.00 12.88 C 56.578 68.656 A ASN 196 **ATOM** 1360 CA C 10.790 1.00 13.47 Α 1361 ASN 196 56.772 68.894 **ATOM** CB C 57.591 70.133 10.489 1.00 14.66 A 1362 196 **ATOM** CG ASN 71.261 10.678 0 1.00 10.34 OD1 ASN 196 57.132 Α 1363 **ATOM** 69.927 10.013 1.00 15.26 Α N 58.819 1364 ND2 ASN 196 ATOM 67.438 12.457 1.00 14.12 Α C 1365 196 55.686 **ATOM** C ASN 12.044 66.347 1.00 16.31 0 1366 **ASN** 196 56.050 Α 0 **ATOM** N 67.613 13.065 1.00 14.48 Α 1367 **GLY** 197 54.522 **ATOM** N 197 53.622 66.488 13.231 1.00 15.17 Α C 1368 CA GLY **ATOM** 14.458 C 53.880 65.638 1.00 15.48 Α 1369 C **GLY** 197 **ATOM** 0 53.059 64.799 14.815 1.00 15.55 A **ATOM** 1370 0 **GLY** 197

65.846

15.098

1.00 16.49

55.023

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									((	Continued)
					FIG.	4 - 29	)		`	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1398 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1410 1411 1412 1413 1414 1415	CB CG2 CG1 CD1 C O N CA CB OG1 CG2 C O N CA CB CG2 C CD2 C CD2 C C C C C C C C C C C C C C C C C C C	ILE ILE ILE THR THR THR ASP ASP ASP TRP TRP TRP TRP TRP TRP TRP TRP TRP TR	198 198 198 198 198 198 199 199 199 199	55. 378 65. 56. 425 63. 55. 874 64. 58. 798 63. 55. 946 66. 56. 507 67. 55. 809 65. 56. 264 66. 55. 374 66. 55. 462 64. 53. 924 66. 57. 716 66. 58. 317 65. 8. 276 67. 59. 649 67. 60. 315 68. 59. 681 69. 58. 517 60. 348 70. 59. 496 66. 58. 388 66. 59. 496 66. 504 65. 60. 504 65. 61. 885 65. 61. 905 64. 61. 412 64. 61. 500 63. 62. 269 63. 62. 025 62.	. 097	98 1.00 11 1.00 12 1.00 14 1.00 18 1.00 19 1.00 10 1.00 11 1.00 11 1.00 12 1.00 12 1.00 13 1.00 14 1.00 15 1.00 16 1.00 17 1.00 18	18. 21 18. 51 17. 86 19. 35 15. 95 17. 63 15. 42 16. 68 17. 40 18. 82 15. 72 16. 12 16. 87 15. 49 14. 82 17. 16 16. 41 15. 97 15. 54 17. 01 13. 14 14. 90 15. 25 13. 65 13. 65 13. 64 14. 03 12. 04 14. 87 14. 42 13. 63 15. 14 14. 23 12. 99 11. 5. 76 18. 74 15. 58	A A A A A A A A A A A A A A A A A A A	Continued) CCCCCCONCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCONCCCCCC
ATOM ATOM ATOM ATOM ATOM	1415 1416 1417 1418 1419	N CA CB CG CD1	TYR TYR TYR TYR TYR	203 203 203 203 203	57. 072 68 55. 676 68 55. 556 69 55. 227 70 56. 231 71	8. 518 25. 2 8. 606 24. 8 9. 078 23. 3 0. 542 23. 2 1. 508 23. 1	226 1.00 305 1.00 354 1.00 227 1.00 193 1.00	15. 58 14. 25 14. 63 12. 35 11. 91 11. 20	A A A A A	N C C C C
ATOM	1420	CEI	TYR	203	55. 920 72	2.867 23.1	100 1.00	11.40	п	•

					(Continued)
				FIG. 4-30	(Colloin dou)
ATOM ATOM ATOM ATOM ATOM ATOM	1422 CE 1423 CZ 1424 OH 1425 C 1426 O 1427 N	TYR TYR TYR GLU	203 203 203 203 203 203 204	53. 902       70. 966       23. 177       1. 00 12. 17       A         53. 579       72. 314       23. 099       1. 00 10. 57       A         54. 588       73. 259       23. 061       1. 00 9. 67       A         54. 259       74. 586       22. 970       1. 00 7. 05       A         55. 024       67. 234       24. 951       1. 00 14. 92       A         53. 896       67. 124       25. 406       1. 00 15. 28       A         55. 744       66. 185       24. 570       1. 00 16. 35       A	C C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1428 CA 1429 CB 1430 CG 1431 CD 1432 OE 1433 OE 1434 C 1435 O 1436 N	GLU GLU GLU	204 204 204 204 204 204 204 204 205	55. 222       64. 826       24. 684       1. 00 16. 96       A         56. 238       63. 812       24. 130       1. 00 14. 28       A         55. 928       62. 380       24. 540       1. 00 14. 97       A         56. 872       61. 345       23. 947       1. 00 19. 54       A         56. 697       60. 144       24. 271       1. 00 18. 49       A         57. 778       61. 714       23. 160       1. 00 18. 73       A         54. 868       64. 431       26. 128       1. 00 18. 02       A         53. 816       63. 848       26. 388       1. 00 17. 48       A         55. 757       64. 761       27. 059       1. 00 18. 67       A	C C C O O C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1437 CA 1438 CB 1439 CG 1440 CD 1441 OE 1442 OE 1443 C	GLU GLU GLU GLU	205 205 205 205 205 205 205 205 205	55. 589       64. 409       28. 459       1. 00       20. 30       A         56. 970       64. 250       29. 096       1. 00       20. 92       A         56. 958       64. 035       30. 592       1. 00       24. 62       A         56. 563       62. 625       30. 974       1. 00       28. 17       A         56. 398       62. 355       32. 182       1. 00       32. 15       A         56. 424       61. 778       30. 069       1. 00       31. 11       A         54. 760       65. 362       29. 319       1. 00       22. 25       A         53. 996       64. 915       30. 164       1. 00       22. 34       A	C C C O O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1451 OE	GLU GLU GLU GLU GLU GLU GLU GLU	206 206 206 206 206 206 206	54. 902       66. 666       29. 107       1. 00       22. 70       A         54. 202       67. 632       29. 939       1. 00       23. 19       A         55. 203       68. 667       30. 453       1. 00       25. 39       A         56. 466       68. 088       31. 080       1. 00       27. 87       A         56. 188       67. 307       32. 345       1. 00       29. 45       A         57. 160       66. 855       32. 987       1. 00       29. 92       A         55. 000       67. 144       32. 696       1. 00       29. 12       A	N C C C C O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1458 CC 1459 C	VAL VAL VAL G1 VAL VAL VAL	206 207 207 207 207 207 207 207	53. 024       68. 378       29. 324       1. 00       24. 91       A         52. 175       68. 885       30. 051       1. 00       24. 03       A         52. 957       68. 452       27. 999       1. 00       25. 41       A         51. 880       69. 199       27. 375       1. 00       25. 29       A         52. 444       70. 235       26. 398       1. 00       25. 95       A         51. 324       71. 114       25. 876       1. 00       28. 49       A         53. 496       71. 080       27. 092       1. 00       26. 77       A         50. 801       68. 409       26. 653       1. 00       26. 09       A	O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1466 CI 1467 CI 1468 CI	3 PHE	207 208 208 208 208 208 208 208 208 208 208	49. 617       68. 703       26. 813       1. 00       27. 62       A         51. 194       67. 412       25. 865       1. 00       26. 41       A         50. 228       66. 620       25. 105       1. 00       26. 03       A         50. 557       66. 676       23. 607       1. 00       27. 43       A         50. 234       67. 994       22. 962       1. 00       28. 64       A         51. 234       68. 911       22. 679       1. 00       29. 07       A         48. 918       68. 328       22. 660       1. 00       30. 01       A         50. 929       70. 142       22. 104       1. 00       30. 28       A         48. 604       69. 556       22. 086       1. 00       30. 23       A         49. 612       70. 464       21. 809       1. 00       30. 40       A	N C C C C C C C

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ATOM	1470	С	PHE	208	50.082	65. 163	25. 506	1.00 26.13	A	C	
ATOM	1471	0	PHE	208		64. 471	24.985	1.00 27.79	A	0	
ATOM	1472	N	SER	209		64. 687	26. 421	1.00 26.62	A	N	
ATOM	1473	CA	SER	209		63. 293	26.848	1.00 25.74	A	C	
ATOM	1474	CB	SER	209		63. 059	27. 743	1.00 24.80	A	C	
ATOM	1475	0G	SER	209		63. 629	29.014	1.00 29.47	A	0	
ATOM	1476	C	SER	209		62. 377	25. 642	1.00 25.50	A	C	
ATOM	1477	0	SER	209		61.249	25.716	1. 00 25. 72	A	O N	
ATOM	1478	N	ALA	210		62.875	24. 524	1.00 23.72	A		
ATOM	1479	CA	ALA	210		62.112	23. 299 22. 530	1. 00 22. 80 1. 00 20. 62	A A	C C	
ATOM	1480	CB	ALA	210		62. 364 62. 560	22. 492	1.00 20.02	A	Č	
ATOM	1481	C	ALA	210		63. 644	22. 703	1.00 22.09	A -	ŏ	
ATOM	1482 1483	0 N	ALA TYR	210 211		61.719	21. 558	1.00 21.57	A	Ň	
ATOM ATOM	1484	CA	TYR	211		62.009	20.718	1.00 21.42	Ä	Č .	
ATOM	1485	CB	TYR	211		60.711	20.415	1.00 19.58	A	č	
ATOM	1486	CG	TYR	211		60.870	19.528	1. 00 16. 81	Ä	Č	
ATOM	1487	CD1	TYR	211		61.870	19.770	1.00 16.07	Ā	Č	
ATOM	1488		TYR	211		61.971	19.001	1.00 18.18	A	Ċ	
ATOM	1489		TYR	211		59.976	18.489	1.00 17.91	Α	C	
ATOM	1490		TYR	211		60.065	17.716	1.00 18.80	Α	С	
ATOM	1491	CZ	TYR	211		61.063	17.979	1.00 18.36	Α	С	
ATOM	1492	OH	TYR	211		61.149	17. 224	1.00 23.65	Α	0	
ATOM	1493	C	TYR	211		62.689	19.428	1.0022.96	Α	С	
ATOM	1494	0	TYR	211	54. 365	63. 443	18.837	1.00 25.79	Α	0	
ATOM	1495	N	SER	212	52.365	62.433	18.983	1.00 20.96	Α	N	
ATOM	1496	CA	SER	212		63. 033	17.746	1.00 19.56	A	С	
ATOM	1497	CB	SER	212		62.175	17.090	1.00 20.97	A	C	
ATOM	1498	0G	SER	212		62. 208	17.829	1.00 21.79	A	0	
ATOM	1499	C	SER	212		64. 439	17. 959	1.00 18.50	A	C	
ATOM	1500	0	SER	212		64. 789	19.040	1. 00 16. 31	A	0	
ATOM	1501	N	ALA	213		65. 236	16.901	1.00 17.84	A	N	
ATOM		CA		213			10.903	1.00 16.02	A	C	
ATOM	1503	CB	ALA	213		67.548	17. 224	1.00 14.16	A	C	
ATOM	1504	C	ALA	213		66. 935	15. 526	1.00 15.57	A	C	
ATOM	1505	0 N	ALA	213		67.862	14.833 15.129	1. 00 13. 25 1. 00 14. 75	A A	O N	
ATOM	1506	N	LEU	214		66.132	13. 874	1.00 14.75	A	C	
ATOM	1507 1508	CA	LEU LEU	214 214		66.339 65.517	13. 874	1.00 16.09	A	C	
ATOM ATOM	1508	CB CG	LEU	214		63. 999	12. 823	1.00 10.40	A	Č	
ATOM	1510		LEU	214		63. 342	12.628	1. 00 18. 97	A	Č	
ATOM	1511		LEU	214		63. 535	11.742	1.00 16.98	A	č	
ATOM	1512	CDZ	LEU	214		65.963	14. 124	1.00 16.65	Ä	č	
ATOM	1513	ŏ	LEU	214		64. 933	14. 728	1.00 18.12	A	Ö	
ATOM	1514	N	TRP	215		66.811	13.666	1.00 16.16	A	N	
ATOM	1515	ĊA	TRP	215		66. 590	13.907	1.00 14.69	Α	C	
ATOM	1516	CB	TRP	215		67.663	14.863	1.00 15.49	Α	С	
ATOM	1517	CG	TRP	215		67.669	16.145	1.00 17.52	Α	C	
ATOM	1518	CD2	TRP	215	46.482	68.325	16.403	1.00 17.74	Α	С	

					EI	C 1	_ 2 2			(Continued)
					ГІ	G. 4	- 3 2			•
ATOM	1519		TRP	215	46. 852	68.008	17. 729	1.00 17.50	A	C
ATOM	1520		TRP	215	47. 325	69. 149	15. 643	1.00 18.21	A	C
ATOM ATOM	1521 1522	CD1 NE1		215 215	44. 904 45. 873	67. 004 67. 202	17. 289 18. 243	1.00 15.79 1.00 17.35	A	C
ATOM	1523		TRP	215	48. 033	68. 485	18. 318	1.00 17.33	A A	N C
ATOM	1524		TRP	215	48. 505	69. 625	16. 228	1.00 18.96	A	Č
ATOM	1525	CH2		215	48. 844	69. 289	17. 555	1.00 18.21	Ä	č
<b>ATOM</b>	1526	C	TRP	215	44.110	66.605	12.661	1.00 15.55	Ä	Č
ATOM	1527	0	TRP	215	43.869	67.668	12.090	1.00 16.18	Α	0
ATOM	1528	N	TRP	216	43.646	65.430	12. 244	1.00 15.31	Α	N
ATOM	1529	CA	TRP	216	42. 793	65. 330	11.069	1.00 16.40	Α	C
ATOM	1530	CB	TRP	216	42. 494	63. 873	10. 739	1.00 16.43	A	C
ATOM	1531	CG	TRP	216	43. 549	63.114	10.002	1.00 17.38	A	C
ATOM ATOM	1532 1533		TRP TRP	216	43. 823	63.169	8. 599	1.00 17.01	A	C
ATOM	1534		TRP	216 216	44. 794 43. 340	62. 176 63. 954	8. 320 7. 549	1.00 17.25 1.00 17.09	A	C
ATOM	1535		TRP	216	44. 352	62. 125	10. 508	1.00 18.55	A A	C C
ATOM	1536		TRP	216	45. 098	61.553	9. 501	1.00 18.07	A	N
ATOM	1537		TRP	216	45. 286	61.951	7. 036	1.00 15.24	A	Č
ATOM	1538		TRP	216	43.829	63.729	6. 270	1.00 17.06	Ä	Č
ATOM	1539	CH2	TRP	216	44. 794	62.734	6.027	1.00 17.07	A	Č
ATOM	1540	C	TRP	216	41.461	66.016	11.355	1.00 17.17	Α	C
ATOM	1541	0	TRP	216	40. 990	66.005	12.487	1.00 18.00	Α	0
ATOM	1542	N	SER	217	40. 847	66.605	10. 334	1.00 18.39	A	N
ATOM	1543	CA	SER	217	39. 552	67. 240	10. 523	1.00 19.62	A	C
ATOM ATOM	1544 1545	CB OG	SER SER	217 217	39. 257 39. 234	68. 225 67. 589	9. 392 8. 133	1.00 20.31	A	C
ATOM	1546	C	SER	217	38. 528	66. 108	10. 550	1.00 24.00 1.00 20.47	A	0 C
ATOM	1547	ŏ	SER	217	38. 814	64. 994	10. 110	1.00 20.47	A A	0
ATOM	1548	Ň	PRO	218	37. 326	66. 369	11.074	1.00 20.82	A	N N
ATOM	1549	CD	PRO	218	36. 827	67. 650	11.598	1.00 20.28	Ä	Č
ATOM	1550	CA	PRO	218	36. 285	65.339	11.154	1.00 22.67	Ä	Č
ATOM	1551	CB	PR0	218	35.033	66.148	11.462	1.00 21.68	Α	Ċ
ATOM	1552	CG	PRO	218	35. 587	67. 223	12. 353	1.00 21.12	Α	С
ATOM	1553	C	PRO	218	36. 123	64.404	9. 950	1.00 23.46	Α	C
ATOM	1554	0	PRO	218	36. 190	63. 183	10. 107	1.00 25.13	A	0
ATOM	1555	N	ASN	219	35. 909	64. 948	8. 756	1.00 22.93	A	N
ATOM ATOM	1556 1557	CA CB	ASN ASN	219 219	35. 756 34. 704	64. 071 64. 622	7.600	1.00 22.31	A	C
ATOM	1558	CG	ASN	219	35. 172	65.849	6.631 5.903	1.00 22.48 1.00 24.12	A	C
ATOM	1559		ASN	219	36. 373	66.076	5. 760	1.00 24.12	A A	C 0
ATOM	1560		ASN	219	34. 230	66.640	5. 411	1.00 26.27	A	N N
ATOM	1561	C	ASN	219	37. 090	63. 841	6.871	1.00 21.20	Ä	Ċ
ATOM	1562	0	ASN	219	37. 115	63.307	5.760	1.00 20.94	A	0
ATOM	1563	N	GLY	220	38. 184	64. 267	7.499	1.00 18.33	Α	N
ATOM	1564	CA	GLY	220	39. 512	64.068	6.941	1.00 17.97	A	C
ATOM	1565	C	GLY	220	40.035	64. 993	5.853	1.00 18.92	A	C
ATOM	1566	0 N	GLY	220	41. 157	64. 801	5. 375	1.00 20.28	A	0
ATOM	1567	N	THR	221	39. 242	65. 980	5. 447	1.00 17.57	Α	N

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					FI	G. 4	- 33			(COIII	illucu/
						<b>.</b>	00				
ATOM	1568	CA	THR	221	39.654	66.917	4.408	1.00 15.80	Α	C	
ATOM	1569	CB	THR	221	38. 540	67.942	4.112	1.00 15.67	A	C	
ATOM	1570	0G1	THR	221	37. 410	67. 269	3. 550	1.00 16.41	A	0	
ATOM	1571		THR	221	39.019	69.004	3. 147	1.00 12.96	Α	C	
ATOM	1572	C	THR	221	40.903	67.674	4.833	1.00 16.70	Α	C	
ATOM	1573	0	THR	221	41.884	67.753	4.088	1.00 16.98	Α	0	
ATOM	1574		PHE	222	40.864	68. 238	6.033	1.00 15.92	A	N	
ATOM	1575		PHE	222	41.999	69.001	6.539	1.00 15.88	A	C	
ATOM	1576		PHE	222	41.508	70. 253	7. 262	1.00 15.20	Α	C	
<b>ATOM</b>	1577		PHE	222	40. 939	71.305	6.356	1.00 14.35	Α	C	
<b>ATOM</b>	1578	CD1	PHE	222	39. 569	71.542	6.323	1.00 11.89	Α	C	
ATOM	1579	CD2		222	41.782	72.097	5. 571	1.00 14.45	Α	С	
<b>ATOM</b>	1580	CE1	PHE	222	39.046	72.550	5. 533	1.00 13.50	A	C	
ATOM	1581	CE2	PHE	222	41.269	73.112	4. 771	1.00 12.61	Α	Ċ	
ATOM	1582	CZ	PHE	222	39. 897	73.342	4. 751	1.00 15.23	A	C	
ATOM	1583	C	PHE	222	42.907	68. 228	7. 494	1.00 16.13	A	C	
ATOM	1584	0	PHE	222	42.467	67.327	8. 211	1.00 16.82	A	0	
ATOM	1585	N	LEU	223	44. 187	68.582	7. 484	1.00 15.93	A	N	
ATOM	1586	CA	LEU	223	45. 159	67.983	8. 385	1.00 14.81	A	C	
ATOM	1587	CB	LEU	223	46. 199	67. 142	7.645	1.00 14.64	A	C	
ATOM	1588	CG	LEU	223	47. 306	66.627	8. 584	1.00 14.94	A	C	
ATOM	1589	CD1	LEU	223	46.696	65.773	9.687	1.00 11.99	A	C	
ATOM	1590	CD2	LEU	223	48. 338	65.830	7.808	1.00 11.50	A	C	
ATOM	1591	C	LEU	223	45.848	69. 162	9.031	1.00 16.80	A	C	
ATOM	1592	0	LEU	223	46. 398	70.028	8. 341	1.00 16.53	A	0	
ATOM	1593	N	ALA	224	45. 790	69. 219	10. 353	1.00 17.34	A	N	
ATOM	1594	CA	ALA	224	46. 420	70. 308	11.073	1.00 18.47	A	C	
ATOM	1595	CB	ALA	224	45. 422	70.950	12.029	1.00 17.47	A	C	
ATOM	1596	С	ALA	224	47. 596	69. 735	11.840	1.00 18.77	A	C	
ATOM	1597	0	ALA	224	47. 587	68. 561	12. 205	1.00 19.22	A	0	
ATOM	1598	N	TYR	225	48. 614	70. 551	12.078	1.00 17.68	A	N	
ATOM	1599	CA	TYR	225	49. 764	70.068	12.819	1.00 17.56	A	C	
ATOM	1600	CB	TYR	225	50. 726			1.00 16.48	A	C	
ATOM	1601	CG	TYR	225	51. 273	70. 108	10. 726	1.00 15.05	A	C	
ATOM	1602		TYR	225	50. 551	70. 235	9. 533	1.00 13.44	A	C	
ATOM	1603		TYR	225	51.050	70. 968	8. 456	1.00 9.19	A	C	
ATOM	1604		TYR	225	52. 514	70. 740	10.814	1.00 14.42	A	C	
ATOM	1605		TYR	225	53. 025	71.476	9. 744	1.00 14.09	A	C	
ATOM	1606	CZ	TYR	225	52. 286	71.583	8. 567	1.00 14.11	A	C	
ATOM	1607	0H	TYR	225	52.802	72. 292	7. 504	1.00 14.49	A	0	
ATOM	1608	Ç	TYR	225	50. 514	71. 182	13. 521	1. 00 17. 79	A	C	
ATOM	1609	0	TYR	225	50. 326	72.359	13. 229	1.00 19.91	A	0 N	
ATOM	1610	N	ALA	226	51.358	70.796	14. 462	1.00 17.65	A	N	
ATOM	1611	CA	ALA	226	52.164	71.748	15. 201	1.00 17.74	A	C	
ATOM	1612	CB	ALA	226	52.060	71.472	16.687	1.00 18.89	A	C	
ATOM	1613	C	ALA	226	53.601	71.575	14. 740	1.00 17.39	A	0	
ATOM	1614	0	ALA	$\frac{226}{227}$	53.966	70.527	14. 204	1.00 16.05	A A	N	
ATOM	1615	N	GLN	$\frac{227}{227}$	54. 412	72.606	14.941	1.00 17.45	A	C	
ATOM	1616	CA	GLN	227	55.816	72.552	14. 555	1.00 16.64	М	C	



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					FΙ	G. 4	- 34			(Continuou)
ATOM	1617	СВ	GLN	227	56.096	73. 423	13. 331	1.00 15.62	Α	С
ATOM	1618	CG	GLN	227	57. 514	73. 246	12. 799	1.00 16.35	A	Č
ATOM	1619	CD	GLN	227	57. 847	74. 191	11.666	1.00 14.31	A	Č
ATOM	1620		GLN	227	57. 877	75. 408	11.851	1.00 14.01	A	ŏ
ATOM	1621		GLN	227	58. 101	73. 639	10. 486	1.00 12.45	A	Ň
ATOM	1622	C	GLN	227	56.615	73. 073	15. 723	1.00 16.27	A	Č
ATOM	1623	Ŏ	GLN	227	56. 346	74. 159	16. 225	1.00 16.33	A	ŏ
ATOM	1624	N	PHE	228	57. 601	72. 301	16. 158	1.00 17.36	A	Ň
ATOM	1625	CA	PHE	228	58. 414	72.717	17. 287	1.00 16.81	A	Ċ
ATOM	1626	CB	PHE	228	58. 327	71.686	18. 412	1.00 14.62	A	č
ATOM	1627	CG	PHE	228	56.919	71. 295	18. 758	1.00 14.48	A	Č
ATOM	1628		PHE	228	56.317	70. 196	18. 141	1.00 14.37	A	č
ATOM	1629		PHE	228	56. 183	72.036	19. 674	1.00 12.73	A	Č
ATOM	1630		PHE	228	55.007	69.840	18. 430	1.00 13.56	A	Č
ATOM	1631		PHE	228	54.870	71.691	19. 971	1.00 14.73	A	Č
ATOM	1632	CZ	PHE	228	54. 279	70.588	19. 348	1.00 15.31	A	Č
ATOM	1633	Č	PHE	228	59.848	72.922	16.859	1.00 18.12	A	Č
ATOM	1634	Ŏ	PHE	228	60.410	72. 121	16. 112	1.00 17.47	A	0
ATOM	1635	N	ASN	229	60.413	74.027	17.335	1.00 20.00	Ā	N
ATOM	1636	CA	ASN	229	61.779	74. 435	17.042	1.00 20.87	Ā	C
ATOM	1637	CB	ASN	229	61.767	75.857	16.474	1.00 21.57	Ā	Č
ATOM	1638	CG	ASN	229	63.086	76.257	15.870	1.00 24.35	Α	C
ATOM	1639		ASN	229	64.141	75.774	16.289	1.00 26.00	Α	0
<b>ATOM</b>	1640		ASN	229	63.025	77. 153	14.887	1.00 25.62	Α	N
ATOM	1641	C	ASN	229	62.540	74.421	18.362	1.00 21.39	Α	C
<b>ATOM</b>	1642	0	ASN	229	62. 232	75.200	19.269	1.00 21.52	Α	0
ATOM	1643	N	ASP	230	63.516	73.530	18.481	1.00 20.96	Α	N
ATOM	1644	CA	ASP	230	64. 300	73.444	19.706	1.00 22.78	Α	C
ATOM	1645	CB	ASP	230	64. 275	72.026	20.268	1.00 22.69	Α	C
ATOM	1646	CG	ASP	230	62.880	71.551	20.580	1.00 22.37	Α	С
ATOM	1647		ASP	230	62. 681	71.015	21.689	1.00 21.57	Α	0
ATOM	1648		ASP	230	61.993	71.705	19. 713	1.00 21.82	Α	0
ATOM	1649	C	ASP	230				1.00 24.50	Α	С
ATOM	1650	0	ASP	230	66.663	73. 252	19.979	1.00 24.72	Α	0
ATOM	1651	N	THR	231	65. 904	74.803	18. 527	1.00 25.87	A	N
ATOM	1652	CA	THR	231	67. 228	75. 245	18. 122	1.00 26.22	A	C
ATOM	1653	CB	THR	231	67. 149	76.406	17. 109	1.00 27.87	A	C
ATOM	1654	0G1	THR	231	66. 540	75. 947	15. 893	1.00 28.62	A	0
ATOM	1655		THR	231	68. 545	76.947	16.813	1.00 26.63	A	C
ATOM	1656	C	THR	231	68. 099	75.688	19. 280	1.00 26.77	A	C
ATOM	1657	0	THR	231	69. 254	75. 277	19. 375	1.00 27.34	A	0
ATOM	1658	N	GLU	232	67. 550	76.519	20. 163	1.00 25.50	A	N
ATOM	1659	CA	GLU	232	68. 329	77.020	21. 285	1.00 24.52	A	C
ATOM	1660	CB	GLU	232	68. 154	78. 526	21.397	1.00 28.36	A	C
ATOM	1661	CG	GLU	232	68. 615	79. 281	20.171	1.00 34.72	A	C C
ATOM	1662 1663	CD OE1	GLU GLU	$\begin{array}{c} 232 \\ 232 \end{array}$	68. 483 68. 767	80. 780 81. 509	20. 338 19. 363	1.00 40.02 1.00 44.21	A A	0
ATOM ATOM	1664		GLU	$\begin{array}{c} 232 \\ 232 \end{array}$	68. 100	81. 232	21.444	1.00 44.21	A	0
ATOM	1665	C	GLU	232	68. 020	76. 377	22. 627	1.00 42.20	A	C
VION	1000	U	OLO	404	00. 020	10.011	44.04(	1.00 44.31	п	U

	(Continued)													
	F I G. 4 - 3 5  ATOM 1666 O GLU 232 68.331 76.942 23.679 1.00 20.81 A O													
ATOM	1666	0	GLU	232	68. 331	76. 942	23. 679			A	0			
ATOM	1667	N	VAL	233	67.416	75.194	22.596	1.00 20.	. 32 A	4	N			
ATOM	1668	CA	VAL	233	67.091	74.499	23.832	1.00 17.	88 <i>I</i>	4	C			
ATOM	1669	CB	VAL	233	65.853	73.618	23.648	1.00 17.		4	C			
ATOM	1670	CG1	VAL	233	65.522	72.925	24. 957	1.00 14.		4	C			
ATOM	1671	CG2	VAL	233	64.678	74.478	23. 160	1.00 16.		4	C			
ATOM	1672	C	VAL	233	68. 261	73.642	24. 304	1.00 16.		4	C			
ATOM	1673	0	VAL	233	68.694	72.728	23.606	1.00 15.			0			
ATOM	1674	N	PRO	234	68.788	73. 927	25. 504	1.00 14.			N			
ATOM	1675	CD	PR0	234	68.313	74.907	26. 494	1.00 13.		4	C			
ATOM	1676	CA	PRO	234	69.914	73.162	26.040	1.00 13.		Ą	C			
ATOM	1677	CB	PRO	234	70.031	73. 677	27. 473	1.00 12.		A	C			
ATOM	1678	CG	PR0	234	69.517	75.059	27. 377	1.00 11.		Ą	C			
ATOM	1679	C	PRO	234	69.643	71.663	25. 987	1.00 16.		4	C			
ATOM	1680	0	PRO	234	68. 487	71.220	26.041	1.00 15.			0			
ATOM	1681	N	LEU	235	70. 716	70.887	25.900	1.00 16.		4	N			
ATOM	1682	CA	LEU	235	70.602	69.443	25. 825	1.00 16.		4	C			
ATOM	1683	CB	LEU	235	71.505	68. 912	24. 718	1.00 18.		A	C			
ATOM	1684	CG	LEU	235	71. 267	69. 349	23. 273	1.00 21.		A	C			
ATOM	1685	CD1		235	72. 434	68.856	22. 412	1.00 21.		A	C			
ATOM	1686		LEU	235	69. 946	68. 790	22.768	1.00 19.		Ą	C			
ATOM	1687	C	LEU	235	70.990	68. 743	27. 118	1.00 17.		A	C			
ATOM	1688	0	LEU	235	71.939	69. 157	27. 793	1.00 18.			0			
ATOM	1689	N	ILE	236	70. 244	67. 696	27. 472	1.00 14.			N			
ATOM	1690	CA	ILE	236	70.586	66. 899	28. 644	1.00 12.		4	C			
ATOM	1691	CB	ILE	236	69. 345	66. 245	29. 335	1.00 10.		4	C			
ATOM	1692		ILE	236	68. 538	65. 433	28. 329			4	C			
ATOM	1693		ILE	236	69. 806	65. 298	30. 448			A ^				
ATOM	1694		ILE	236	70. 789	65. 919	31.427	1.00 7. 1.00 12.		<u>م</u> ۸	C			
ATOM	1695	C	ILE	236	71.444	65. 802 65. 276	28. 010	1.00 12.		A A	0			
ATOM	1696	O N	ILE	$\begin{array}{c} 236 \\ 237 \end{array}$	71. 105 72. 558	65. 480	26. 942 28. 650	1.00 10.		A	N			
ATOM	1697		GLU				28. 128	1.00 12.		A.	C			
ATOM	1698		GLU GLU	$\begin{array}{c} 237 \\ 237 \end{array}$	73. 463 74. 767	65. 128	27. 655	1.00 14.		A.	C			
ATOM ATOM	1699 1700	CB CG	GLU	237	74. 554	66. 079	26. 500	1.00 18.		A	Č			
ATOM	1700	CD	GLU	237	75. 845	66. 500	25. 819	1.00 23.		A	č			
ATOM	1702		GLU	237	75. 779	67.016	24. 683	1.00 25		A	ŏ			
ATOM	1702		GLU	237	76. 928	66. 324	26. 408	1.00 26.		A	Ŏ			
ATOM	1703	C	GLU	237	73. 744	63. 427	29. 191	1.00 13.		A	Č			
ATOM	1705	Ö	GLU	237	73. 895	63. 752	30. 363	1.00 14.		A	Ŏ			
ATOM	1706	N	TYR	238	73. 801	62. 169	28. 781	1.00 12		A	N			
ATOM	1707	CA	TYR	238	74. 052	61.093	29. 721	1.00 14		A	Ċ			
ATOM	1708	CB	TYR	238	72. 810	60.840	30. 595	1.00 12		A	Č			
ATOM	1709	CG	TYR	238	71.566	60.419	29. 856	1.00 11		Ā	C			
ATOM	1710		TYR	238	71.451	59. 139	29. 317	1.00 16.		A	С			
ATOM	1711		TYR	238	70. 292	58. 739	28.635	1.00 17		A	C			
ATOM	1712		TYR	238	70.496	61.295	29.701	1.00 12		A	C			
ATOM	1713		TYR	238	69.336	60.913	29.020	1.00 12	. 94	A	C			
ATOM	1714	CZ	TYR	238	69. 243	59.634	28. 487	1.00 15	. 48	A	С			

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					FΙ	G. 4	- 36			(Cor
<b>АТОМ</b>	1715	ОН	TYR	238	68. 127	59. 257	27.775	1.00 15.96	Α	0
ATOM	1716	C	TYR	238	74. 445	59. 847	28. 954	1.00 15.35	A	Č
ATOM	1717	0	TYR	238 238	74. 443	59.667	27. 798	1.00 17.74	A	Ö
ATOM						58. 986	29. 596	1.00 17.14	A	N
ATOM	1718	N CA	SER	239	75. 220		28. 943	1.00 14.10	A	C
ATOM	1719	CA	SER	239	75. 689	57. 779	29. 656	1.00 13.87	A	Č
ATOM	1720	CB	SER	239	76. 926	57. 251	29. 766	1.00 11.90	A	0
ATOM	1721	OG C	SER	239	77. 902	58. 265		1.00 13.45		C
ATOM	1722	C	SER	239	74.661	56.668	28.879 29.700	1.00 13.45	A A	0
ATOM	1723	0 N	SER	239	73. 755	56. 587	27. 862	1.00 14.39	A	N
ATOM	1724	N	PHE	240	74.809	55.834	27.679	1.00 12.12	A	C
ATOM	1725	CA CB	PHE PHE	240 240	73. 972 73. 003	54. 678 54. 833	26. 523	1.00 12.93	A	C
ATOM	$1726 \\ 1727$	CG	PHE	240 240	71.896	53. 843	26. 574	1.00 12.48	A	C
ATOM	1728		PHE	240	70. 824	54. 037	27. 436	1.00 10.15	A	Č
ATOM ATOM	1729		PHE	240 240	70. 824	52.655	25. 858	1.00 10.13	Ā	Č
ATOM	1730		PHE	240 240	69.859	53.064	27. 597	1.00 10.78	Ä	Č
ATOM	1731		PHE	240	71.018	51.675	26. 012	1.00 10.10	A	č
ATOM	1732	CZ	PHE	240	69. 954	51.878	26. 888	1.00 10.46	A	č
ATOM	1733	C	PHE	240	75.018	53. 652	27. 330	1.00 14.83	Ä	č
ATOM	1734	ŏ	PHE	240	75. 722	53. 805	26. 335	1.00 18.18	Ä	ŏ
ATOM	1735	Ň	TYR	241	75. 129	52.617	28. 153	1.00 13.74	Ä	Ň
ATOM	1736	ĊA	TYR	241	76. 147	51.612	27. 958	1.00 13.29	Ä	Ċ
ATOM	1737	CB	TYR	241	76.526	51.057	29. 329	1.00 13.69	A	Č
ATOM	1738	CG	<b>TYR</b>	241	76.833	52.167	30. 317	1.00 10.88	Α	C
ATOM	1739	CD1	TYR	241	78.065	52.821	30.308	1.00 11.93	Α	C
ATOM	1740	CE1	TYR	241	78.326	53.894	31.168	1.00 9.47	Α	C
ATOM	1741	CD2	TYR	241	75.862	52.610	31.218	1.00 12.15	Α	C
ATOM	1742		TYR	241	76. 106	53.678	32.080	1.00 11.02	Α	C
ATOM	1743	CZ	TYR	241	77. 338	54. 319	32.046	1.00 12.15	Α	C
ATOM	1744	OH	TYR	241	77. 556	<b>55. 408</b>	32.859	1.00 10.38	Α	0
ATOM	1745	C	TYR	241	75. 793	50.510	26.967	1.00 14.62	A	C
ATOM	1746	0	TYR	241	76.686	49.948	26.322	1.00 12.20	A	0
ATOM	1747	N	SER	242	74. 501	50. 204	26.837	1.00 16.13	A	N
ATOM	1748	CA	SER	242	74. 053	49. 180	25.888	1.00 16.13	A	C
ATOM	1749	CB	SER	242	74. 464	49. 590	24. 469	1.00 16.30	A	C
ATOM	1750	OG	SER	242	74.004	48. 674	23. 496	1.00 17.85	A	0
ATOM	1751	Ç.	SER	242	74.647	47. 816	26. 226	1.00 17.46	A	C
ATOM	1752	0	SER	242	75. 219	47.625	27. 303	1.00 19.13	A	0
ATOM	1753 1754	N CA	ASP ASP	243	74.516	46.865 45.535	25.312	1.00 19.34 1.00 23.36	A	N
ATOM ATOM	1755	CA CB	ASP	$\begin{array}{c} 243 \\ 243 \end{array}$	75. 066 74. 774	45. 555 44. 605	25. 548 24. 369	1.00 23.30	A	C
ATOM	1756	CG	ASP	243 243	73. 290	44. 419	24. 309	1.00 27.30	A A	C C
ATOM	1757		ASP	243	72. 549	44. 246	25. 126	1.00 36.97	A	Õ
ATOM	1758		ASP	243	72. 862	44. 438	22. 955	1.00 37.15	Ä	ő
ATOM	1759	C	ASP	243	76. 572	45. 554	25. 805	1.00 23.56	A	č
ATOM	1760	ŏ	ASP	243	77. 298	46. 432	25. 330	1.00 22.48	A	ŏ
ATOM	1761	Ň	GLU	244	77.016	44. 559	26. 567	1.00 24.45	A	Ň
ATOM	1762	CA	GLU	$\frac{1}{244}$	78. 412	44. 363	26. 944	1.00 22.80	A	Ĉ
ATOM	1763	CB	GLU	244	78. 534	42.984	27.605	1.00 23.73	. A	C

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										(Continued)
					FΙ	G. 4	- 37			(0011011111011,
ATOM	1764	CG	GLU	244	79. 940	42. 547	27. 995	1.00 29.35	A	С
ATOM	1765	CD	GLU	244	79. 967	41.177	28. 667	1.00 29.80	A	č
ATOM	1766		GLU	244	81.079	40.680	28. 958	1.00 29.53	A	ŏ
ATOM	1767		GLU	244	78. 877	40.601	28. 903	1.00 29.32	A	ő
ATOM	1768	C	GLU	244	79. 374	44. 476	25. 754	1.00 22.28	A	č
ATOM	1769	Õ	GLU	244	80. 533	44. 854	25. 913	1.00 21.20	A	ŏ
ATOM	1770	N	SER	245	78. 888	44. 159	24. 561	1.00 21.62	A	Ň
ATOM	1771	CA	SER	245	79. 724	44. 205	23. 370	1.00 19.92	A	Č
ATOM	1772	CB	SER	245	79. 080	43. 402	22. 244	1.00 19.31	A	č
ATOM	1773	OG	SER	245	77. 949	44.068	21. 723	1.00 17.93	A	ŏ
ATOM	1774	C	SER	245	80. 044	45.605	22: 861	1.00 19.58	A	č
ATOM	1775	ŏ	SER	245	80. 874	45. 762	21. 971	1.00 21.35	Ä	ŏ
ATOM	1776	N	LEU	246	79. 392	46. 628	23. 397	1.00 18.69	Ä	Ň
ATOM	1777	CA	LEU	246	79. 694	47. 983	22. 943	1.00 18.41	A	Ċ
ATOM	1778	CB	LEU	246	78. 522	48. 926	23. 229	1.00 18.20	Ä	č
ATOM	1779		LEU	246	78. 659	50.368	22. 728	1.00 17.99	A	č
ATOM	1780		LEU	246	78. 736	50.388	21. 214	1.00 16.83	Ä	Č
ATOM	1781		LEU	246	77. 458	51.181	23. 192	1.00 19.98	A	č
ATOM	1782	C	LEU	246	80. 943	48. 463	23.679	1.00 18.12	Ä	Č
ATOM	1783	Ŏ	LEU	246	80. 921	48.662	24. 895	1.00 16.81	Ä	Ö
ATOM	1784	Ň	GLN	247	82.034	48. 635	22. 940	1.00 17.84	Ä	N
ATOM	1785	CA	GLN	247	83. 295	49.073	23. 532	1.00 17.30	Ä	Ĉ
ATOM	1786	CB	GLN	247	84. 400	49.038	22. 480	1.00 15.11	A	Č
ATOM	1787	CG	GLN	247	85. 791	49. 234	23.045	1.00 17.62	Ä	č
ATOM	1788	CD	GLN	247	86. 875	48.770	22.090	1.00 18.47	A	Č
ATOM	1789		GLN	247	86. 829	49.065	20.899	1.00 20.53	A	0
ATOM	1790		GLN	247	87. 862	48.049	22.611	1.00 17.76	A	N
ATOM	1791	C	GLN	247	83. 224	50.461	24.170	1.00 17.66	Α	C
ATOM	1792	0	GLN	247	83.640	50.648	25.313	1.00 17.56	Α	0
ATOM	1793	N	TYR	248	82.710	51.436	23.430	1.00 18.50	Α	N
ATOM	1794	CA	TYR	248	82.592	52.794	23.954	1.00 19.00	Α	С
ATOM	1795	CB	TYR	248	83. 177	53.822	22.972	1.00 17.39	Α	C
ATOM	1796	CG	TYR	248	84. 684	53.820	22.860	1.00 16.80	Α	C
ATOM	1797	CD1	TYR	248	85. 353	52.812	22.172	1.00 17.20	Α	C
ATOM	1798		TYR	248	86. 742	52.814	22.058	1.00 17.58	Α	С
ATOM	1799		TYR	248	85. 444	54. 838	23. 437	1.00 17.77	Α	C
ATOM	1800		TYR	248	86. 839	54.851	23.333	1.00 17.22	Α	C
ATOM	1801	CZ	TYR	248	87. 479	53.836	22.647	1.00 18.42	Α	С
ATOM	1802	OH	TYR	248	88. 854	53.809	22.595	1.00 19.27	Α	0
ATOM	1803	C	TYR	248	81. 130	53.134	24. 212	1.00 18.87	Α	C
ATOM	1804	0	TYR	248	80. 288	53.018	23. 323	1.00 19.15	A	0
ATOM	1805	N	PRO	249	80. 804	53.549	25.440	1.00 18.20	A	N
ATOM	1806	CD	PRO	249	81.610	53. 595	26.668	1.00 18.21	A	C
ATOM	1807	CA	PRO	249	79. 411	53.886	25.716	1.00 18.83	A	C
ATOM	1808	CB	PRO	249	79. 424	54. 222	27. 206	1.00 19.46	A	C
ATOM	1809	CG	PRO	249	80. 857	54. 582	27. 481	1.00 17.63	A	C
ATOM	1810	C	PRO	249	78. 937	55.042	24. 852	1.00 19.66	A	C
ATOM	1811	0	PRO	249	79. 734	55.864	24.413	1.00 20.92	A	0 N
ATOM	1812	N	LYS	250	77. 638	55.096	24. 599	1.00 19.01	A	N

	FIG. 4-38 (Continued)													
ATOM	1813	CA	LYS	250	77. 083	56. 158	23. 785	1.00 19.61	A	C				
ATOM	1814	CB	LYS	250	75. 933	55.618	22. 936	1.00 23.51	A	C				
ATOM	1815	CG	LYS	250	76. 320	54. 428	22.089	1.00 28.40	A	C				
ATOM	1816		LYS	250	75. 197	54.010	21. 152	1.00 30.62	A	C				
ATOM	1817		LYS	250	75. 698	52.938	20. 203	1.00 32.02	A	C				
ATOM	1818		LYS	250	76. 966	53. 385	19. 546	1.00 32.62	A	N				
ATOM	1819	C	LYS	250	76. 580	57. 320	24. 628	1.00 17.92	A	C				
ATOM	1820	0	LYS	250	76. 130	57. 130	25. 758	1.00 17.90	A	0				
ATOM	1821	N	THR	251	76. 663	58. 524	24. 077	1.00 14.61	A	N C				
ATOM	1822	CA	THR	251	76. 171	59.689	24. 786	1.00 15.48	A	C				
ATOM	1823	CB	THR	251	77. 104	60.887	24.666	1.00 13.61	A	C				
ATOM	1824	0G1	THR	251	78. 280	60.654	25. 441	1.00 15.96	A	0				
ATOM	1825	CG2	THR	251	76. 414	62. 137	25. 181	1.00 13.93	A	C				
ATOM	1826	C	THR	251	74. 832	60.086	24. 205	1.00 16.04	A	C				
ATOM	1827	0	THR	251	74. 755	60. 572	23. 083	1.00 17.34	A	0 N				
ATOM	1828	N	VAL	252	73. 779	59. 860	24. 977	1.00 15.27	A	N C				
ATOM	1829	CA	VAL	252	72. 439	60. 205	24. 559	1.00 16.08	A	C C				
ATOM	1830	CB	VAL	252	71.405	59. 381	25. 355	1.00 16.76	A A	C				
ATOM	1831		VAL	252	69. 987	59. 832	25. 014	1.00 16.29		C				
ATOM	1832		VAL	252	71.595	57. 895	25. 050	1.00 13.65	A A	C				
ATOM	1833	C	VAL	252	72. 223	61.699	24. 799	1.00 18.46 1.00 19.01	A	0				
ATOM	1834	0	VAL	252	72. 443	62. 212	25. 905 23. 754	1.00 19.01	A	N N				
ATOM	1835	N	ARG	253	71. 799 71. 568	62. 398 63. 831	23. 842	1.00 13.18	A	C				
ATOM	1836	CA	ARG	253 253	72. 574	64. 567	22. 949	1.00 18.34	A	C				
ATOM	1837	CB	ARG	253 253	74. 014	64. 439	23. 457	1.00 13.40	A	C				
ATOM	1838 1839	CG CD	ARG ARG	253 253	75. 021	65. 066	22. 519	1.00 29.04	A	C				
ATOM ATOM	1840	NE	ARG	253 253	75. 797	64. 044	21.822	1.00 25.04	A	N N				
ATOM	1841	CZ	ARG	253 253	77. 013	63. 647	22. 185	1.00 38.08	A	Č				
ATOM	1842		ARG	253 253	77. 606	64. 191	23. 241	1.00 39.69	Ä	Ň				
ATOM	1843		ARG	253	77. 633	62. 699	21. 497	1.00 40.12	A	N				
ATOM	1844	C	ARG	253	70. 140	64. 156	23. 449	1.00 17.33	A	Ċ				
ATOM	1845	Ö	ARG	253	69. 690			1.00 18.44	Ä	ŏ				
ATOM	1846	Ň	VAL	254	69. 432	64. 836	24. 344	1.00 16.85	Ä	N				
ATOM	1847	CA	VAL	254	68. 033	65. 196	24. 125	1.00 15.67	A	C				
ATOM	1848	CB	VAL	254	67. 079	64. 405	25.070	1.00 16.67	A	Ċ				
ATOM	1849		VAL	254	65.640	64.775	24.766	1.00 16.79	Α	C .				
ATOM	1850		VAL	254	67. 308	62.899	24.951	1.00 17.24	Α	С				
ATOM	1851	C	VAL	254	67. 737	66.660	24.405	1.00 14.62	Α	C ·				
ATOM	1852	0	VAL	254	68. 122	67.186	25.450	1.00 15.12	Α	0				
ATOM	1853	N	PRO	255	67.048	67.340	23.475	1.00 13.71	Α	N				
ATOM	1854	CD	PRO	255	66.677	66.945	22.105	1.00 10.62	Α	С				
ATOM	1855	CA	PRO	255	66.725	68.749	23.730	1.00 13.00	Α	C C C				
ATOM	1856	CB	PR0	255	66.064	69.193	22.431	1.00 13.28	Α	C				
ATOM	1857	CG	PRO	255	66.674		21.397	1.00 13.45	Α	$ar{\mathbf{c}}$				
ATOM	1858	C	PRO	255	65.735		24.899	1.00 13.86	Α	C				
ATOM	1859	0	PRO	255	64.663		24.772	1.00 13.58	A	0				
ATOM	1860	N	TYR	256	66. 108		26.032	1.00 13.63	A	N				
ATOM	1861	CA	TYR	256	65.304	69. 194	27. 242	1.00 11.65	Α	C				

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										(Continued)
					FIC	G. 4	- 39			(Continuou)
ATOM	1862	СВ	TYR	256	65. 801	68. 006	28. 077	1.00 10.57	Α	С
ATOM	1863	CG	TYR	256	65.044	67.706	29.351	1.00 10.49	Α	C
ATOM	1864	CD1	TYR	256	64.949	68.646	30.378	1.00 9.61	A	C
ATOM	1865	CE1	TYR	256	64.296	68. 351	31.571	1.00 7.54	A	C
ATOM	1866	CD2		256	64.460	66.460	29.549	1.00 9.65	A	C
ATOM	1867	CE2		256	63. 799	66. 156	30. 735	1.00 11.05	A	C
ATOM	1868	CZ	TYR	256	63. 722	67. 105	31. 742	1.00 10.10	A	C
ATOM	1869	OH	TYR	256	63.060	66. 801	32.909	1.00 10.49	A	0
ATOM	1870	C	TYR	256	65. 488	70. 492	28. 012	1.00 12.70	A	C
ATOM	1871	0	TYR	256	66. 559	70. 750	28.553	1.00 15.49	A	0
ATOM	1872	N	PRO	257	64. 444	71.325	28. 080	1.00 12.39	A	N C
ATOM	1873	CD	PRO	257	63. 174	71. 254	27. 334	1.00 13.82	A	C C
ATOM	1874	CA	PRO	257	64. 548	72. 593	28. 800	1.00 11.47 1.00 12.01	A	C
ATOM	1875	CB	PRO	257	63. 501	73.450	28. 106 27. 866	1.00 12.01	A A	C
ATOM	1876	CG	PRO	257	62.405	72. 464 72. 489	30. 298	1.00 12.87	A	C
ATOM	1877	C	PRO	$\begin{array}{c} 257 \\ 257 \end{array}$	64. 296 63. 174	72. 210	30. 723	1.00 12.65	A	Ö
ATOM	1878	0	PRO LYS	257 258	65. 327	72. 718	31. 105	1.00 11.64	A	N
ATOM ATOM	1879 1880	N CA	LYS	258 258	65. 155	72. 671	32. 546	1.00 11.04	A	Ċ
ATOM	1881	CB	LYS	258 258	66. 501	72. 439	33. 227	1.00 12.96	Ä	č
ATOM	1882	CG	LYS	258 258	67.034	71.012	33. 031	1.00 14.20	A	č
ATOM	1883	CD	LYS	258	68. 519	70. 906	33. 331	1.00 13.34	A.	Č
ATOM	1884	CE	LYS	258	69.042	69. 480	33. 136	1.00 13.95	Ä	Č
ATOM	1885	NZ	LYS	258	68. 671	68. 536	34. 223	1.00 10.80	A	N
ATOM	1886	C	LYS	258	64.517	73. 984	33.011	1.00 12.44	A	С
ATOM	1887	ŏ	LYS	258	64.368	74. 921	32.224	1.00 11.13	Α	0
ATOM	1888	N	ALA	259	64.124	74.043	34.280	1.00 13.33	Α	N
ATOM	1889	CA	ALA	259	63.484	75.236	34.844	1.00 14.81	Α	С
ATOM	1890	CB	ALA	259	63.368	75.097	36.355	1.00 16.40	Α	C
ATOM.	1891	C	ALA	259	64.167	76.555	34.508	1.00 15.14	Α	С
ATOM	1892	0	ALA	259	65.317	76. 787	34. 881	1.00 17.32	Α	0
ATOM	1893	N	GLY	260	63.448	77.419	33. 802	1.00 16.82	Ą	N
ATOM	1894	CA	GLY	260	63.984		33. 444	1.00 15.59	A	C
ATOM	1895	C	GLY	260	64.870	78. 749	32. 217	1.00 15.78	A	C
ATOM	1896	0	GLY	260	65.379	79.812	31.852	1. 00 17. 65	A	0
ATOM	1897	N	ALA	261	65.072	77.600	31. 577	1. 00 13. 77	A	N
ATOM	1898	CA	ALA	261	65.906	77. 554	30.379	1.00 11.19	A	C
ATOM	1899	CB	ALA	261	66. 524	76. 182	30. 224	1.00 10.21	A	C
ATOM	1900	C	ALA	261	65.093	77. 911	29. 137	1.00 10.04	A	C 0
ATOM	1901	0	ALA	261	63. 896 65. 747	78. 160 77. 947	29. 212 27. 987	1.00 8.71 1.00 11.73	A A	N
ATOM	1902 1903	N CA	VAL VAL	$\begin{array}{c} 262 \\ 262 \end{array}$	65. 050	78. 284	26. 761	1.00 11.13	A	C
ATOM	1903	CB	VAL	262	66.035	78. 529	25. 594	1.00 12.10	A	č
ATOM ATOM	1904		VAL	262	65. 257	78. 796	24. 299	1.00 11.30	A	č
ATOM	1906		VAL	262	66. 939	79. 732	25. 920	1.00 5.79	A	č
ATOM	1907	C	VAL	262	64. 092	77. 167	26. 389	1.00 13.92	Ä	Č
ATOM	1908	ŏ	VAL	262	64. 471	76.001	26. 341	1.00 16.73	Ā	Ö
ATOM	1909	Ň	ASN	263	62.844	77. 536	26. 139	1.00 13.49	A	N
ATOM	1910	CA	ASN	263	61.816	76. 585	25.773	1.00 13.67	Α	С

	FIG. 4-40 (Continued)													
		25						1 00	14 50		0			
ATOM	1911	CB	ASN	263	60. 470	77.038	26. 336		14.53	A	C			
ATOM	1912	CG	ASN	263	60. 222	76.545	27. 746		17.27	A	C			
ATOM	1913		ASN	263	59. 342	77.058	28. 444		18.62	A	0			
ATOM	1914		ASN	263	60.977	75. 534	28. 169		16.78	A	N			
ATOM	1915	C	ASN	263	61.715	76.500	24. 265		14.45	A	C			
ATOM	1916	0	ASN	263	62.170	77. 395	23. 561		16.33	A	0			
ATOM	1917	N	PRO	264	61.119	75.418	23. 743		14.86	Α	N			
ATOM	1918	CD	PRO	264	60.513	74.254	24. 412		15.86	Α	C			
ATOM	1919	CA	PR0	264	60.986	75. 301	22. 294		15.41	Α	C			
ATOM	1920	CB	PRO	264	60. 591	73.844	22.106		14.97	Α	С			
ATOM	1921	CG	PR0	264	59. 721	73.607	23. 287		14.81	Α	С			
ATOM	1922	C	PR0	264	59.867	76. 238	21.882		15.66	Α	С			
ATOM	1923	0	PR0	264	58. 954	76.496	22.663	1.00	17.42	Α	0			
ATOM	1924	N	THR	265	59.942	76.767	20.673	1.00	15.76	Α	N			
ATOM	1925	CA	THR	265	58.895	77.648	20. 199	1.00	14.67	Α	C			
ATOM	1926	CB	THR	265	59.458	78.779	19.341	1.00	15.37	Α	C			
ATOM	1927	0G1	THR	265	60.162	78. 228	18.223	1.00	15.98	Α	0			
ATOM	1928	CG2	THR	265	60.402	79.633	20.159	1.00	12.01	Α	С	*		
ATOM	1929	C	THR	265	58.024	76.749	19.360	1.00	15.62	Α	C			
ATOM	1930	0	THR	265	58.465	75.683	18.932	1.00	18.75	Α	0			
ATOM	1931	N	VAL	266	56.794	77.170	19.113	1.00	15.56	Α	N			
ATOM	1932	CA	VAL	266	55.872	76.352	18.347	1.00	12.79	Α	C			
ATOM	1933	CB	VAL	266	54.856	75.692	19.274	1.00	12.90	Α	C			
ATOM	1934	CG1	VAL	266	54.193	76.766	20.130	1.00	12.06	Α	C			
ATOM	1935	CG2	VAL	266	53.821	74.920	18.466		10.69	Α	C			
ATOM	1936	С	VAL	266	55.115	77.180	17.350		12.88	Α	C			
ATOM	1937	0	VAL	266	54.995	78.388	17.511		12.12	Α	0			
<b>ATOM</b>	1938	N	LYS	267	54.601	76.501	16.327		13.52	Α	N			
<b>ATOM</b>	1939	CA	LYS	267	53.817	77.107	15.262		13.08	Α	C			
<b>ATOM</b>	1940	CB	LYS	267	54.692	77.389	14.050		13.64	Α	C			
ATOM	1941	CG	LYS	267	55.642	78.570	14.165		13.17	Α	C			
ATOM	1942	CD	LYS	267	56.348	78.713	12.833		11.33	Α	C			
ATOM	1943		LYS	267	57. 313		12.788			Α	C			
ATOM	1944	NZ	LYS	267	58.007		11.459		12.98	Α	N			
ATOM	1945	C	LYS	267	52.713		14.851		14.81	Α	C			
ATOM	1946	0	LYS	267	52.885	74.916	14.930		14.91	Α	0			
ATOM	1947	Ň	PHE	268	51.588	76.674	14. 389		15.02	A	N			
ATOM	1948	CA	PHE	268	50. 471	75.836	13.975		14.84	Ā	C			
ATOM	1949	CB	PHE	268	49. 249	76.138	14.842		13.98	Α	C			
ATOM	1950	CG	PHE	268	48. 237	75.041	14.846		15.65	Α	C			
ATOM	1951		PHE	268	48. 467	73.872	15.562		15.51	Α	C			
ATOM	1952		PHE	268	47. 056	75. 159	14. 115		18.05	Ā	Č			
ATOM	1953		PHE	268	47. 537	72.836	15.551		15.17	A	Ċ			
ATOM	1954		PHE	268	46. 120	74.120	14.101		17.28	A	С			
ATOM	1955	CZ	PHE	268	46. 366	72.960	14.821		14.54	A	Ċ			
ATOM	1956	C	PHE	268	50.117	76.029	12.497		14.63	Α	С			
ATOM	1957	0	PHE	268	50. 143	77.144	11.981		16.53	Α	0			
ATOM	1958	N	PHE	269	49.767	74.938	11.829		13.37	Α	N			
ATOM	1959	CA	PHE	269	49.417	74.976	10.413		12.73	Α	C			

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FIG. 4-41											
ATOM	1960	СВ	PHE		50. 597	74. 510	9.547	1.00 12.68	A	С	
ATOM	1961	CG	PHE		51.875			1.00 10.71	Α	C	
ATOM	1962		PHE		52. 190			1.00 11.11	Α	C C C	
ATOM	1963		PHE		52. 758			1.00 11.04	Α	C	
ATOM	1964		PHE		53. 374			1.00 12.54	Α	C	
ATOM	1965		PHE		53. 940			1.00 13.96	Α	C	
ATOM	1966	CZ	PHE		54. 252		10. 339	1.00 13.89	Α	C	
ATOM	1967	C	PHE		48. 270			1.00 12.37	Α	С	
ATOM	1968	0	PHE		47. 937		10.910	1.00 14.50	A	0	
ATOM	1969	N	VAL		47. 699			1.00 13.63	Α	N	
ATOM	1970	CA	VAL	270	46.626			1.00 15.44	Α	C	
ATOM	1971	CB	VAL	270	45. 228			1.00 14.59	Α	C	
ATOM	1972		VAL	270	44. 153		8. 383	1.00 12.94	Α	C	
ATOM	1973		VAL	270	45. 110		10. 304	1.00 15.69	A	C	
ATOM	1974	Ç	VAL	270	46. 730		6. 975	1.00 16.91	Α	C	
ATOM	1975	0	VAL	270	46.875	74. 188	6. 258	1.00 17.51	Α	0	
ATOM	1976	N	VAL	271	46.681	71. 966	6. 494	1.00 17.37	Α	N	
ATOM	1977	CA	VAL	271	46.726	71.746	5.067	1.00 16.54	A	C	
ATOM	1978	CB	VAL	271	47. 928	70.879	4.646	1.00 19.07	A	C	
ATOM	1979		VAL	271	47. 911	69. 548	5.400	1.00 20.07	Α	C	
ATOM	1980		VAL	271	47. 878	70.635	3. 131	1.00 18.62	A	C	
ATOM	1981	C	VAL	271	45. 456	71.041	4.641	1.00 15.09	A	C	
ATOM	1982	0	VAL	271	44. 912	70. 226	5. 383	1.00 13.46	A	0	
ATOM	1983	N	ASN	272	44. 988	71.394	3. 449	1.00 15.17	A	N	
MOTA	1984	CA	ASN	272	43.812	70. 802	2.832	1.00 14.94	A	C C C	
ATOM	1985	CB	ASN	272	43. 231	71.767	1. 797	1.00 13.83	A	C	
ATOM	1986	CG	ASN	272	42.010	71. 205	1.093	1.00 14.46	A		
ATOM	1987		ASN	272	41.822	69. 989	1.007	1.00 16.67	A	0	
ATOM	1988		ASN	272	41.175	72.090	0.581	1.00 15.74	A	N	
ATOM	1989	C	ASN	272	44.310	69. 542	2.110	1.00 15.70	A	C	
ATOM	1990	0	ASN	272	44. 755	69.617	0.967	1.00 16.88	A	0	
ATOM	1991 1992	N	THR	273	44. 241	68. 390	2.758	1.00 15.93	A	N	
ATOM ATOM	1992	CA	THR	273	44. 717	67. 169		1.00 18.97	A	C	
ATOM		CB	THR	273	44. 570	65.936	3.052	1.00 19.44	A	C	
ATOM	1994 1995		THR THR	273	43. 201	65.794	3.471	1.00 19.69	A	0	
ATOM	1996	CGZ		273	45. 481	66.083	4. 266	1.00 19.20	A	C	
ATOM	1997	0	THR	273	44.009	66.870	0.813	1.00 19.92	A	C	
ATOM	1998		THR	273	44. 550	66. 154	-0.028	1.00 21.20	A	0	
	1999	N	ASP	274	42.811	67. 424	0.634	1.00 20.50	A	N	
ATOM ATOM	2000	CA CB	ASP	274	42.032	67. 193	-0.584	1.00 20.30	A	C	
ATOM	2000	CG	ASP ASP	274	40.578	67. 629 66. 529	-0.390	1.00 21.02	A	C	
ATOM	2001		ASP	274 274	39. 705 38. 543	66.823	0.178	1.00 23.48	A	C	
ATOM	2002		ASP	274 274	40. 168	65.375	0.527	1.00 26.38	A	0	
ATOM	2003	C	ASP	274	42.573	67.870	0. 275 -1. 832	1.00 23.88	A	0	
ATOM	2004	0	ASP	274	42. 373	67. 556		1.00 19.89 1.00 22.08	A	C	
ATOM	2006	N	SER	275	43. 508	68. 802	-2.932 -1.676	1.00 22.08	A	0	
ATOM	2007	CA	SER	275	44. 073	69. 490		1.00 18.13	Α	N C	
ATOM	2008	CB	SER	275	44. 284	70. 969	-2.534	1.00 16.65	A A	C	

					FIG. 4-42	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM	2009 2010 2011 2012 2013 2014	OG C O N CA CB	SER SER SER LEU LEU LEU	275 275 275 276 276 276	45. 197 71. 121 -1. 444 1. 00 24. 82 45. 397 68. 885 -3. 314 1. 00 19. 53 45. 883 69. 226 -4. 394 1. 00 19. 59 45. 971 67. 986 -2. 516 1. 00 19. 83 47. 241 67. 348 -2. 846 1. 00 20. 72 47. 545 66. 226 -1. 849 1. 00 19. 96	A O A C A O A N A C A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2015 2016 2017 2018 2019 2020 2021		LEU LEU LEU LEU LEU SER SER	276 276 276 276 276 277 277	47. 725       66. 641       -0. 392       1. 00       20. 47       47         47. 991       65. 410       0. 456       1. 00       21. 68       48         48. 875       67. 622       -0. 277       1. 00       18. 56       47         47. 360       66. 790       -4. 263       1. 00       22. 34       48         48. 290       67. 137       -4. 994       1. 00       24. 63       46         46. 434       65. 925       -4. 656       1. 00       22. 80       46         46. 501       65. 325       -5. 983       1. 00       23. 82       48	A C A C A C A C A O A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2022 2023 2024 2025 2026 2027 2028	CB OG C O N CA CB	SER SER SER SER SER SER SER	277 277 277 277 278 278 278	45. 456       64. 219       -6. 121       1. 00       22. 59       A         44. 148       64. 756       -6. 044       1. 00       23. 44       A         46. 305       66. 341       -7. 097       1. 00       24. 47       A         46. 699       66. 104       -8. 231       1. 00       26. 86       A         45. 698       67. 472       -6. 768       1. 00       25. 44       A         45. 431       68. 522       -7. 745       1. 00       26. 20       A         44. 051       69. 121       -7. 471       1. 00       25. 70       A	C C C C N C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2029 2030 2031 2032 2033 2034 2035	OG C O N CA CB CG1	SER SER SER VAL VAL VAL	278 278 278 279 279 279 279	43. 831 70. 266 -8. 266 1. 00 30. 53 A 46. 495 69. 630 -7. 739 1. 00 25. 70 A 46. 603 70. 414 -8. 683 1. 00 23. 48 A 47. 277 69. 692 -6. 672 1. 00 26. 01 A 48. 327 70. 696 -6. 565 1. 00 28. 42 A 48. 073 71. 634 -5. 350 1. 00 29. 96 A 49. 372 72. 211 -4. 834 1. 00 32. 19	O C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2036 2037 2038 2039 2040 2041 2042		VAL VAL VAL THR THR THR	279 279 279 280 280 280 280	47. 148       72. 768       -5. 776       1. 00       29. 00       A         49. 704       70. 043       -6. 470       1. 00       28. 21       A         49. 834       68. 872       -6. 088       1. 00       29. 00       A         50. 728       70. 801       -6. 848       1. 00       26. 67       A         52. 092       70. 306       -6. 832       1. 00       26. 53       A         53. 023       71. 217       -7. 645       1. 00       27. 22       A	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2043 2044 2045 2046 2047 2048 2049	CG2 C O N CA CB	THR THR THR ASN ASN ASN ASN	280 280 280 281 281 281 281	54. 422       70. 645       -7. 674       1. 00 26. 85       A         52. 618       70. 254       -5. 418       1. 00 26. 01       A         53. 184       69. 255       -4. 986       1. 00 27. 33       A         52. 402       71. 341       -4. 696       1. 00 25. 17       A         52. 876       71. 474       -3. 334       1. 00 23. 78       A         54. 190       72. 250       -3. 388       1. 00 22. 28       A	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2050 2051 2052 2053 2054 2055 2056 2057	OD1 ND2 C O N CA CB C	ASN	281 281 281 281 282 282 282 282	54. 925       72. 287       -2. 071       1. 00       22. 87       A         54. 603       71. 576       -1. 116       1. 00       20. 83       A         55. 948       73. 136       -2. 056       1. 00       22. 18       A         51. 818       72. 211       -2. 506       1. 00       23. 12       A         51. 876       73. 431       -2. 362       1. 00       22. 47       A         50. 849       71. 460       -1. 982       1. 00       23. 33       A         49. 763       72. 018       -1. 166       1. 00       23. 40       A         48. 952       70. 895       -0. 547       1. 00       23. 19       A         50. 320       72. 912       -0. 071       1. 00       24. 45       A	C O N C O N C C C

	FIG. 4-43												
					FI	G. 4	- 43						
ATOM	2058	0	ALA	282	51.180	72.487	0.694	1.00 25.49	Α	0			
ATOM	2059	N	THR	283	49.817	74.140	0.024	1.00 24.70	Α	N			
ATOM	2060	CA	THR	283	50.326	75. 074	1.021	1.00 25.33	Α	C			
ATOM	2061	CB	THR	283	50. 209	76. 540	0.539	1.00 27.36	Α	C			
ATOM	2062	0G1	THR	283	48.834	76.874	0.353	1.00 29.84	A	0			
ATOM	2063	CG2	THR	283	50.947	76. 730	-0.785	1.00 30.06	A	C			
ATOM		C	THR	283	49.710	74. 983	2.406	1.00 24.49	A	C			
ATOM		0	THR	283	48. 487	74. 960	2.578	1.00 24.13	A	0			
ATOM		N	SER	284	50. 593	74. 941	3. 396	1.00 23.17	A	N			
ATOM		CA	SER	284	50. 200	74. 872	4. 791	1.00 19.88	A	C			
ATOM		CB	SER	284	51.317	74. 249	5. 624	1.00 15.88	A	C			
ATOM		0G	SER	284	51.413	72.868	5. 350	1.00 14.23	A	0			
ATOM		C	SER	284	49.906	76. 275	5. 288	1.00 19.24	A	C			
ATOM		0	SER	284	50.774	77.148	5. 253	1.00 18.08	A	0 N			
ATOM		N	ILE	285	48. 674	76.478	5.745	1.00 17.36 1.00 16.16	A	N C			
ATOM		CA	ILE	285	48. 249	77. 771 78. 003	6. 242 5. 977	1.00 16.16	A	C			
ATOM		CB	ILE	285 285	46. 754 46. 384	79. 446	6. 324	1.00 10.55	A A	C			
ATOM		CG2 CG1	ILE	285	46. 434	77. 691	4. 513	1.00 14.33	A	Ċ			
ATOM ATOM			ILE	285 285	47. 230	78. 526	3. 528	1.00 14.03	A	č			
ATOM		CDI	ILE	285 285	48. 496	77. 848	7. 733	1.00 16.46	A	č			
ATOM		0	ILE	285	48. 116	76. 963	8. 489	1.00 18.69	A	ŏ			
ATOM		N	GLN	286	49. 130	78. 923	8. 159	1.00 16.66	A	Ň			
ATOM		CA	GLN	286	49. 428	79. 088	9. 563	1.00 16.43	Ä	Ĉ			
ATOM		CB	GLN	286	50. 778	79. 776	9.717	1.00 16.31	Ä	č			
ATOM		CG	GLN	286	51.184	80.070	11.135	1.00 17.85	Ā	Č			
ATOM		CD	GLN	286	52. 552	80.713	11.196	1.00 21.44	A	Ċ			
ATOM			GLN	286	53.072	81.005	12.277	1.00 24.09	Α	0			
ATOM		NE2		286	53.149	80.939	10.028	1.00 19.13	Α	N			
ATOM		C	GLN	286	48.360	79.885	10.289	1.00 16.82	Α	C			
ATOM	2088	0	GLN	286	47. 794	80.844	9.754	1.00 17.23	Α	0			
ATOM		N	ILE	287	48.070	79.453	11.507	1.00 15.99	Α	N			
ATOM	2090	CA		287	47. 116		12.355	1.00 15.11	Α	C			
ATOM		CB	ILE	287	46.036	79.182	12.894	1.00 14.14	Α	C			
ATOM		CG2		287	45. 147	79.916	13.875	1.00 14.36	A	C			
ATOM		CG1		287	45. 206	78. 621	11.742	1.00 13.29	A	C			
ATOM		CD1		287	44.111	77.675	12. 202	1.00 14.31	A	C			
ATOM		C	ILE	287	47. 991	80.625	13. 506	1.00 15.35	A	C			
ATOM		0	ILE	287	48. 349	79, 860	14.401	1.00 14.39	A	0			
ATOM		N	THR	288	48. 367	81.894	13. 452	1.00 15.01	A	N C			
ATOM		CA	THR	288	49. 215	82. 465	14.482	1.00 16.71 1.00 17.36	A	C C			
ATOM	2099	CB	THR	288	49.688	83.874	14.093 13.779	1.00 17.30	A A	0			
ATOM	2100 2101	0G1	THR THR	288 288	48. 548 50. 621	84. 679 83. 813	12. 881	1.00 21.17	A	C			
ATOM ATOM	2101	C	THR	288	48. 510	82. 553	15. 818	1.00 17.04	A	Č			
ATOM	2102	0	THR	288	47. 287	82.668	15.888	1.00 16.02	A	ŏ			
ATOM	2103	N	ALA	289	49. 301	82.488	16.881	1.00 16.31	A	N			
ATOM	2105	CA	ALA	289	48. 787	82. 582	18. 232	1.00 16.67	Ä	Ċ			
ATOM	2106	CB	ALA	289	49.887	82, 262	19. 207	1.00 18.89	A	C			
		-											

	FIG. 4-44 (Continued)												
					FIC	G. 4	- 44						
ATOM	2107	C	ALA	289		84.001	18. 467	1.00 18.05	A	C			
ATOM	2108	0	ALA	289		84. 927	17. 733	1.00 19.12 1.00 18.60	A	0 N			
ATOM	2109	N	PRO	290		84. 193	19. 487 20. 388	1.00 18.00	A A	N C			
ATOM	2110	CD CA	PRO PRO	290 290		83. 189 85. 526	19. 783	1.00 10.37	A	Č			
ATOM ATOM	2111 2112	CB	PRO	290 290		85. 234	20. 777	1.00 13.04	A	Č			
ATOM	2112	CG	PRO	290 290		84. 055	21.499	1.00 19.78	A	Č			
ATOM	2113	C	PRO	290 290		86. 447	20.369	1.00 20.45	A	č			
ATOM	2115	Õ	PRO	290		85. 995	21.092	1.00 22.14	A	ŏ			
ATOM	2116	N	ALA	291		87. 735	20.054	1.00 19.85	A	Ň			
ATOM	2117	CA	ALA	291		88. 728	20.543	1.00 19.27	A	Ċ			
ATOM	2118	CB	ALA	291		90. 132	20. 213	1.00 17.30	Ä	Č			
ATOM	2119	Č	ALA	291		88.610	22.041	1.00 19.66	A	Č			
ATOM	2120	0	ALA	291		88.791	22.489	1.00 21.52	Α	0			
ATOM	2121	N	SER	292		88.305	22.825	1.00 19.16	Α	N			
ATOM	2122	CA	SER	292		88. 185	24. 264	1.00 19.97	Α	C			
<b>ATOM</b>	2123	CB	SER	292		87.983	24.971	1.00 19.90	Α	C			
<b>ATOM</b>	2124	0G	SER	292		86.839	24.487	1.00 24.94	Α	0			
ATOM	2125	C	SER	292		87.055	24.618	1.00 20.24	Α	C			
ATOM	2126	0	SER	292		86.948	25.760	1.00 21.86	Α	0			
ATOM	2127	N	MET	293		86.214	23.635	1.00 20.06	Α	N			
ATOM	2128	CA	MET	293		85.104	23.818	1.00 18.78	A	C			
ATOM	2129	CB	MET	293		83. 830	23. 149	1.00 17.35	A	C			
ATOM	2130	CG	MET	293		83. 168	23. 797	1.00 15.90	A	C			
ATOM	2131	SD	MET	293		82.503	25. 424	1.00 15.89	A	S			
ATOM	2132	CE	MET	293		82.993	26. 296	1.00 16.41	A	C			
ATOM	2133	C	MET	293		85. 487	23. 161	1.00 20.24	A	C			
ATOM	2134	0	MET	293		85. 221	23.693	1.00 21.12	A	0			
ATOM	2135	N	LEU	294		86.116	21.995	1.00 20.44	A	N			
ATOM	2136	CA	LEU	294		86.532	21. 255	1.00 21.31	A	C			
ATOM	2137	CB CG	LEU LEU	294		87.104	19.900	1.00 21.19	A	C			
ATOM	2138 2139		LEU	294		86.092	18.944	1.00 23.63	A	C			
ATOM ATOM	2139		LEU	294 294		85.064	17. 747 18. 493	1.00 22.60 1.00 20.94	A				
ATOM	2140	CDZ	LEU	294		87. 533	21. 981	1.00 20.34	A A	C C			
ATOM	2142	0	LEU	294		87. 742	21.564	1.00 23.39	A	0			
ATOM	2143	N	ILE	295		88. 156	23.053	1.00 21.86	A	N			
ATOM	2144	CA	ILE	295		89.122	23.792	1.00 22.24	A	Č			
ATOM	2145	CB	ILE	295		89. 938	24.835	1.00 24.92	Ä	č			
ATOM	2146		ILE	295		90.536	24. 196	1.00 25.08	Ä	č			
ATOM	2147		ILE	295		89. 034	25.998	1.00 25.57	A	Č			
ATOM	2148		ILE	295		89. 761	27.085	1.00 26.45	Ā	Č			
ATOM	2149	C	ILE	295		88. 426	24.565	1.00 21.97	A	Č			
ATOM	2150	0	ILE	295		89.064	25.006	1.00 23.91	Α	Ō			
ATOM	2151	N	GLY	296		87.119	24.749	1.00 20.65	Α	N			
ATOM	2152	CA	GLY	296	56.174	86.401	25.482	1.00 18.90	Α	С			
ATOM	2153	С	GLY	296		84.922	25.167	1.00 18.45	Α	С			
ATOM	2154	0	GLY	296		84.503	24. 202	1.00 18.61	A	0			
ATOM	2155	N	ASP	297	56.878	84.132	25.967	1.00 16.58	Α	N			

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										(Continued)
					FΙ	G. 4	- 45			,
ATOM	0156	CA	A CD	907	FC 010	09 604	96 751	1 00 10 00	4	C
ATOM	2156	CA	ASP	297	56. 918 57. 960	82. 694 82. 032	25. 751 26. 650	1.00 16.95 1.00 18.00	A	C
ATOM	2157 2158	CB CG	ASP ASP	297 297	59. 366	82. 378	26. 253	1.00 18.00	A	C
ATOM ATOM	2159		ASP	297	59. 553	82. 882	25. 128	1.00 18.02	A A	C 0
ATOM	2160		ASP	297	60. 284		27. 063	1.00 13.23	A	0
ATOM	2161	C	ASP	297	55. 553		26.041	1.00 16.02	A	Č
ATOM	2162	Ö	ASP	297	54. 847	82. 537	26. 942	1.00 16.36	A	Ö
ATOM	2163	N	HIS	298	55. 190	81.079	25. 279	1.00 14.79	A	N
ATOM	2164	CA	HIS	298	53. 901	80. 449	25. 460	1.00 14.15	Ä	Č
ATOM	2165	CB	HIS	298	52. 846	81. 207	24. 661	1.00 14.81	Ä	č
ATOM	2166	CG	HIS	298	53. 245	81.448	23. 241	1.00 15.31	A	č
ATOM	2167		HIS	298	52. 921	80. 793	22.099	1.00 14.85	Ä	Č
ATOM	2168		HIS	298	54. 127	82.442	22.876	1.00 13.01	Ä	N
ATOM	2169		HIS	298	54. 327	82.392	21.572	1.00 14.39	Ā	Ċ
ATOM	2170		HIS	298	53.608	81.400	21.076	1.00 14.38	Ā	N
ATOM	2171	C	HIS	298	53. 956	79.008	24.979	1.00 17.54	A	C
ATOM	2172	0	HIS	298	55.008	78.519	24.560	1.00 15.53	Α	0
ATOM	2173	N	TYR	299	52.802	78.348	25.031	1.00 17.25	Α	N
ATOM	2174	CA	TYR	299	52.675	76.963	24.609	1.00 16.58	Α	C
ATOM	2175	CB	TYR	299	52.666	76.029	25.816	1.00 15.77	Α	C
ATOM	2176	CG	TYR	299	53.811	76.176	26.790	1.00 17.03	Α	C
ATOM	2177	CD1	TYR	299	55. 095	75.762	26.456	1.00 14.29	Α	C
ATOM	2178		TYR	299	56.119	75.807	27.380	1.00 15.79	Α	С
ATOM	2179		TYR	299	53. 586	76.653	28. 081	1.00 15.17	Α	С
ATOM	2180		TYR	299	54.600	76.700	29.009	1.00 15.67	Α	C
ATOM	2181	CZ	TYR	299	55. 865	76. 270	28.656	1.00 15.90	Α	C
ATOM	2182	OH	TYR	299	56. 863	76. 261	29.595	1.00 16.73	A	0
ATOM	2183	C	TYR	299	51.351	76. 741	23. 893	1.00 17.76	A	C
ATOM	2184	0	TYR	299	50. 349	77. 411	24.178	1.00 16.87	A	0
ATOM	2185	N	LEU	300	51.355	75. 799	22. 959	1.00 16.20	A	N
ATOM	2186	CA	LEU	300	50. 130	75.413	22. 292	1.00 16.36	A	C
ATOM	2187	CB	LEU	300	50.413	74. 923	20.878	1.00 16.40	A	C
ATOM	2188	CG	LEU	300	49. 232	74. 296	20.139	1.00 14.78	A	C
ATOM ATOM	2189		LEU	300	48. 131	75. 322	19.972	1.00 16.55	A	C
ATOM	2190 2191	CDZ	LEU LEU	300 300	49. 692 49. 777	73. 789 74. 243	18. 785 23. 205	1.00 15.08	A	C
ATOM	2191	Õ	LEU	300	50. 568	73. 312	23. 203	1.00 17.58 1.00 17.21	A	C
ATOM	2192	N	CYS	301	48. 629	74. 290	23. 873	1.00 17.21	A	0 N
ATOM	2194	CA	CYS	301	48. 288	73. 202	24. 782	1.00 13.40	A	N C
ATOM	2195	CB	CYS	301	48. 208	73. 722	26. 220	1.00 22.20	A A	C
ATOM	2196	SG	CYS	301	46. 943	74. 962	26. 503	1.00 26.56	A	S
ATOM	2197	Č	CYS	301	47. 032	72. 399	24.468	1.00 23.29	A	Č
ATOM	2198	ŏ	CYS	301	46. 690	71.481	25. 210	1.00 25.66	A	0
ATOM	2199	N	ASP	302	46. 341	72. 731	23. 386	1.00 23.55	A	N
ATOM	2200	CA	ASP	302	45. 148	71. 976	23. 015	1.00 24.19	A	Č
ATOM	2201	CB	ASP	302	43. 999	72. 223	23. 991	1.00 26.49	Ä	č
ATOM	2202	CG	ASP	302	42.789	71.355	23.680	1.00 28.68	A	č
ATOM	2203	0D1		302	42.795	70.170	24.066	1.00 30.65	A	Ö
ATOM	2204	OD2		302	41.841	71.844	23.029	1.00 30.37	A	0

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(Continued)											
					F 1 (	G. 4	- 4 0				
ATOM	2205	С	ASP	302	44.658	72. 292	21.610	1.00 23.22	Α	С	
ATOM	2206	ŏ	ASP	302	44. 523	73. 455	21. 226	1.00 24.26	Ā	0	
ATOM	2207	Ň	VAL	303	44. 385	71. 237	20.857	1.00 21.65	Α	N	
ATOM	2208	CA	VAL	303	43. 902	71.349	19. 493	1.00 20.79	A	C	
ATOM	2209	CB	VAL	303	44. 926	70. 803	18.480	1.00 21.88	A	C	
ATOM	2210		VAL	303	44. 420	71.028	17.051	1.00 20.34	Α	С	
ATOM	2211	CG2		303	46. 273	71.465	18. 702	1.00 20.12	A	Ċ	
ATOM	2212	C	VAL	303	42.657	70. 494	19.417	1.00 20.38	Ā	Ċ	
ATOM	2213	ŏ	VAL	303	42. 687	69. 306	19. 744	1.00 19.45	Ā	0	
ATOM	2214	N	THR	304	41.562	71.102	18. 982	1.00 20.04	Ā	N	
ATOM	2215	CA	THR	304	40. 302	70. 394	18. 882	1.00 19.30	Ā	C	
ATOM	2216	CB	THR	304	39. 494	70. 546	20. 191	1.00 19.73	Ä	Č	
ATOM	2217		THR	304	40. 256	70.024	21. 287	1.00 20.19	Ä	0	
ATOM	2218	CG2		304	38. 168	69. 812	20.090	1.00 17.51	Ä	C	
ATOM	2219	C	THR	304	39. 467	70.930	17. 733	1.00 18.56	Ä	Č	
ATOM	2220	Õ	THR	304	39. 185	72.127	17.674	1.00 19.32	Ä	0	
ATOM	2221	N	TRP	305	39. 082	70.042	16.819	1.00 18.08	Ä	N	
ATOM	2222	CA	TRP	305	38. 243	70. 422	15.681	1.00 16.88	Ā	Ċ	
ATOM	2223	CB	TRP	305	38. 332	69. 394	14. 546	1.00 13.92	Ä	Ċ	
ATOM	2224	CG	TRP	305	39. 581	69. 464	13. 745	1.00 13.82	Ä	Č	
ATOM	2225	CD2		305	39. 815	70. 296	12.606	1.00 13.04	A	Č	
ATOM	2226	CE2		305	41.143	70.068	12. 189	1.00 13.12	Ä	č	
ATOM	2227	CE3		305	39. 031	71. 216	11.899	1.00 13.55	Ä	č	
ATOM	2228		TRP	305	40. 745	68. 781	13. 967	1.00 13.51	A	č	
ATOM	2229		TRP	305	41.688	69. 138	13. 036	1.00 11.41	Ä	Ň	
ATOM	2230	CZ2		305	41.704	70. 729	11.094	1.00 12.03	A	Ċ	
ATOM	2231	CZ3		305	39. 591	71.873	10.809	1.00 14.16	Ä	č	
ATOM	2232	CH2		305	40. 914	71.625	10.419	1.00 13.92	Ä	č	
ATOM	2233	C	TRP	305	36.803	70. 477	16. 155	1.00 16.35	A	Č	
ATOM	2234	ŏ	TRP	305	36. 368	69. 613	16. 917	1.00 16.55	Ä	ŏ	
ATOM	$\frac{2234}{2235}$	N	ALA	306	36.064	71.484	15. 704	1.00 16.10	A	Ň	
ATOM	$\frac{2235}{2236}$	CA	ALA	306	34.661	71.620	16.079	1.00 17.20	A	Ċ	
ATOM	2237		ALA	306	34. 336			1.00 18.47	A	č	
ATOM	2238	C	ALA	306	33.770	71.110	14. 956	1.00 16.79	Ä	č	
ATOM	2239	Õ	ALA	306	32. 829	70. 369	15. 191	1.00 18.46	A	ŏ	
ATOM	2240	N	THR	307	34. 076	71.516	13. 733	1.00 18.36	Ä	Ň	
ATOM	2241	CA	THR	307	33. 314	71. 100	12. 564	1.00 18.83	A	Č	
ATOM	2242	CB	THR	307	32. 387	72. 222	12.072	1.00 18.43	Ä	č	
ATOM	2243	OG1	THR	307	33. 178	73. 254	11.473	1.00 20.76	Ä	Ö	
ATOM	2244	CG2	THR	307	31.593	72. 811	13. 225	1.00 16.72	Ä	č	
ATOM	2245	C	THR	307	34. 299	70. 778	11. 442	1.00 20.34	A	č	
ATOM	2246	ŏ	THR	307	35. 494	70. 626	11. 689	1.00 22.05	Ä	ŏ	
ATOM	2247	N	GLN	308	33. 798	70. 688	10. 213	1.00 20.11	A	Ň	
ATOM	2248	CA	GLN	308	34. 640	70. 389	9.066	1.00 19.71	Ä	Ċ	
ATOM	2249	CB	GLN	308	33. 799	69. 942	7.866	1.00 19.44	Ä	Č	
ATOM	2250	CG	GLN	308	32. 845	68. 791	8. 118	1.00 21.53	Ä	C C C	
ATOM	2251	CD	GLN	308	33. 524	67. 505	8. 557	1.00 23.81	A	Č	
ATOM	2252	0E1		308	32. 854	66. 565	9.003	1.00 25.80	Ä	Ŏ	
ATOM	2253		GLN	308	34. 848	67.449	8.430	1.00 21.04	A	N	

										(Continued)
					FΙ	G. 4	- 47			(Continued)
ATOM	2254	С	GLN	308	35. 440	71.616	8.653	1.00 19.98	٨	С
ATOM	2255	0	GLN	308	36. 421		7. 922	1.00 13.38	A A	0
ATOM	2256	N	GLU	309	35. 022		9.114	1.00 21.84	A	N N
ATOM	2257	CA	GLU	309	35. 710		8. 751	1.00 13.41	A	C
ATOM	2258	CB	GLU	309	34. 920		7. 685	1.00 21.98	A	Č
ATOM	2259	CG	GLU	309	34. 709		6. 419	1.00 26.38	A	Č
ATOM	2260	CD	GLU	309	33. 890		5. 413	1.00 29.11	A	Č
ATOM	2261		GLU	309	33.665		4. 305	1.00 23.11	A	Õ
ATOM	2262		GLU	309	33. 471	75. 869	5. 736	1.00 28.78	A	0
ATOM	2263	C	GLU	309	35. 924		9. 932	1.00 21.37	A	Č
ATOM	2264	ŏ	GLU	309	36. 075		9. 764	1.00 21.97	A	ŏ
ATOM	2265	Ň	ARG	310	35. 941	74. 360	11. 125	1.00 20.65	A	N
ATOM	2266	CA	ARG	310	36. 133		12. 340	1.00 20.50	A	Ċ
ATOM	2267	CB	ARG	310	34. 779	75. 445	12. 986	1.00 19.87	Ä	· č
ATOM	2268	CG	ARG	310	34. 888	76. 186	14. 305	1.00 22.38	Ä	č
ATOM	2269	CD	ARG	310	33. 519	76.630	14. 786	1.00 21.66	Ä	č
ATOM	2270	NE	ARG	310	32. 952	77.605	13.870	1.00 20.43	Ä	Ň
ATOM	2271	CZ	ARG	310	31.660	77.884	13. 785	1.00 19.88	Ä	Ċ
ATOM	2272		ARG	310	30. 794	77. 261	14.569	1.00 21.42	Ä	Ň
ATOM	2273		ARG	310	31. 235	78.776	12.902	1.00 21.69	A	N
ATOM	2274	С	ARG	310	37.009	74.346	13.304	1.00 19.05	Ä	Ċ
ATOM	2275	0	ARG	310	36. 701	73. 214	13.671	1.00 20.19	A	Ö
ATOM	2276	N	ILE	311	38. 108	74.959	13.710	1.00 17.88	A	Ň
ATOM	2277	CA	ILE	311	39.044	74.320	14.619	1.00 17.41	A	Ċ
<b>ATOM</b>	2278	CB	ILE	311	40.371	73.991	13.859	1.00 17.28	Ā	Č
ATOM	2279	CG2	ILE	311	40.982	75. 252	13.305	1.00 14.23	Α	C
ATOM	2280		ILE	311	41.358	73. 254	14.765	1.00 17.79	A	· Č
ATOM	2281		ILE	311	42. 589	72.763	14.011	1.00 15.43	Α	C
ATOM	2282	C	ILE	311	39. 283	75. 258	15.802	1.00 17.03	Α	C
ATOM	2283	0	ILE	311	39. 267	76. 481	15.649	1.00 17.06	Α	0
ATOM	2284	N	SER	312	39. 461	74. 692	16.988	1.00 16.94	Α	N
ATOM	2285	CA	SER	312	39. 694	75. 517	18. 163	1.00 18.32	Α	C
ATOM	2286	CB	SER	312	38. 631	75. 244	19. 235	1.00 19.09	Α	C
ATOM	2287	0G	SER	312	39.008	74. 173	20.074	1.00 18.57	Α	0
ATOM	2288	C	SER	312	41.084	75. 269	18. 736	1.00 18.45	Α	C
ATOM	2289	0	SER	312	41.552	74. 131	18. 795	1.00 17.71	Α	0
ATOM	2290	N	LEU	313	41. 738	76. 349	19. 148	1.00 19.07	Α	N
ATOM	2291	CA	LEU	313	43. 080	76. 271	19.708	1.00 20.08	A	C
ATOM	2292	CB	LEU	313	44. 093	76. 931	18. 768	1.00 19.12	A	Č ·
ATOM	2293		LEU	313	44. 239	76.409	17. 341	1.00 20.02	A	C
ATOM	2294		LEU	313	45. 480	77. 038	16.712	1.00 19.82	A	C
ATOM	2295		LEU	313	44. 361	74. 892	17. 351	1.00 20.74	A	C
ATOM	2296	C	LEU	313	43. 172	76. 957	21.062	1.00 21.08	A	C
ATOM ATOM	2297 2298	O N	LEU GLN	313	42.608	78.030	21. 265	1.00 21.22	A	0
ATOM	2299	CA	GLN	314 314	43. 898	76. 333	21.981	1.00 22.23	A	N
ATOM	2300	CB	GLN	314	44. 096	76. 884 75. 935	23. 308 24. 365	1.00 22.40	A	C
ATOM	2300	CG	GLN	314	43. 545 42. 033	75. 860	24. 305 24. 406	1.00 24.62 1.00 27.30	A	C
ATOM	2302	CD	GLN	314	41.536	74. 832	24. 400 25. 401	1.00 27.30	A	C C
WI OIII	2002	UD	ODIT	UIT	41.000	17.004	40.401	1.00 43.04	Α	U

					T I	G. 4	- 4 8			(Continued)
ATOM	2303	OE 1	CI N	214				1 00 20 20	Δ.	
ATOM			GLN	314	41.827	74. 911	26. 598	1.00 29.38	A	0
ATOM	2304	NE 2		314	40. 786	73.854	24. 911	1.00 30.52	A	N
ATOM	2305	C	GLN	314	45. 584		23. 532	1.00 22.00	A	C
ATOM	2306	0	GLN	314	46. 382		23. 419	1.00 22.34	A	0
ATOM	2307	N	TRP	315	45. 954	78. 333	23. 833	1.00 21.50	A	N
ATOM	2308	CA	TRP	315	47. 343	78.667	24. 070	1.00 20.70	A	C
ATOM	2309	CB	TRP	315	47. 748	79.873	23. 226	1.00 18.74	A	Ċ
ATOM	2310	CG	TRP	315	47.480	79. 711	21.746	1.00 17.87	Α	С
ATOM	2311		TRP	315	48. 435	79. 368	20. 733	1.00 14.81	Α	C
ATOM	2312		TRP	315	47. 764	79.419	19. 491	1.00 14.29	Α	C
ATOM	2313		TRP	315	49. 793	79.029	20. 753	1.00 13.32	Α	C
ATOM	2314		TRP	315	46.299	79. 936	21.095	1.00 15.84	Α	C
ATOM	2315		TRP	315	46.463	79.769	19. 742	1.00 13.87	Α	N
ATOM	2316		TRP	315	48. 407	79. 147	18. 278	1.00 12.51	Α	C
ATOM	2317		TRP	315	50. 433	78. 760	19. 545	1.00 13.87	Α	C
ATOM	2318	CH2	TRP	315	49. 736	78.822	18.325	1.00 12.57	A	C
ATOM	2319	C	TRP	315	47.530	78.976	25.545	1.00 21.60	Α	С
ATOM	2320	0	TRP	315	46.615	79.463	26. 205	1.00 22.41	Α	0
ATOM	2321	N	LEU	316	48. 721	78.689	26.056	1.00 21.81	Α	N
ATOM	2322	CA	LEU	316	49.033	78.915	27.458	1.00 22.64	Α	C
ATOM	2323	CB	LEU	316	49.034	77.573	28.192	1.00 22.20	Α	С
ATOM	2324	CG	LEU	316	49.655	77.484	29.584	1.00 23.04	Α	C
ATOM	2325	CD1	LEU	316	48.953	78.438	30.530	1.00 24.08	Α	C
ATOM	2326	CD2	LEU	316	49. 557	76.049	30.085	1.00 19.71	Α	C
ATOM	2327	C	LEU	316	50.383	79.617	27.618	1.00 24.44	A	Č
ATOM	2328	0	LEU	316	51.392	79.192	27.046	1.00 26.77	Α	0
ATOM	2329	N	ARG	317	50.388	80.704	28.383	1.00 23.92	Α	N
ATOM	2330	CA	ARG	317	51.603	81.475	28.630	1.00 22.55	Α	C
ATOM	2331	CB	ARG	317	51. 265	82.787	29.337	1.00 25.72	A	Č
ATOM	2332	CG	ARG	317	50.490	83. 785	28.504	1.00 26.56	A	Č
ATOM	2333	CD	ARG	317	50.187	85.012	29.327	1.00 26.99	Ā	Č
ATOM	2334	NE	ARG	317	49.796	86.141	28.494	1.00 30.37	Ā	N
ATOM	2335	CZ	ARG	317	49. 278	87.269	28.966	1.00 30.55	A	Ċ
ATOM	2336	NH1	ARG	317	49.082	87.414	30.273	1.00 29.99	Ā	N
ATOM	2337	NH2	ARG	317	48.972	88. 256	28.132	1.00 28.53	A	N
ATOM	2338	C	ARG	317	52. 580	80.705	29.500	1.00 21.07	Ā	Ċ
ATOM	2339	0	ARG	317	52.175	79.920	30. 359	1.00 19.79	· A	0
ATOM	2340	N	ARG	318	53.871	80.941	29.290	1.00 19.43	A	N
ATOM	2341	CA	ARG	318	54.876	80. 259	30.084	1.00 17.08	A	Ĉ
ATOM	2342	CB	ARG	318	56. 263	80.850	29.845	1.00 15.15	Ā	Č
ATOM	2343	CG	ARG	318	57.345	80.075	30. 564	1.00 13.58	Ā	č
ATOM	2344	CD	ARG	318	58.671	80.165	29.853	1.00 13.59	A	Č
ATOM	2345	NE	ARG	318	59.687	79. 341	30.504	1.00 11.13	Ä	Ň
ATOM	2346	CZ	ARG	318	60.895	79.135	30.001	1.00 10.46	Ä	Ċ
ATOM	2347		ARG	318	61.220	79.694	28.850	1.00 11.29	Ä	Ň
ATOM	2348		ARG	318	61.773	78.378	30.642	1.00 10.86	Ä	N
ATOM	2349	C	ARG	318	54.500	80.354	31.555	1.00 16.61	Α	Ċ
ATOM	2350	0	ARG	318	54. 794	79.448	32. 318	1.00 20.33	A	0
ATOM	2351	N	ILE	319	53.869	81.455	31.954	1.00 16.59	Α	N

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					FΙ	G. 4	- 49			•
ATOM	2352	CA	ILE	319	53. 396	81.607	33. 330	1.00 17.40	Α	С
ATOM	2353	CB	ILE	319	53. 389	83.078	33. 776	1.00 17.03	A	Č
ATOM	2354	CG2		319	52. 720	83. 210	35. 128	1.00 17.19	Ä	Č
ATOM	2355	CG1	ILE	319	54. 828	83. 589	33. 878	1.00 19.57	Ä	Č
ATOM	2356	CD1	ILE	319	55. 712	82. 743	34. 787	1.00 19.56	A	Č
ATOM	2357	C	ILE	319	51.972	81.065	33. 251	1.00 17.56	A	Č
ATOM	2358	ŏ	ILE	319	51.012	81.808	33.067	1.00 18.71	Ā	0
ATOM	2359	Ň	GLN	320	51.870	79. 747	33. 381	1.00 16.94	Ä	N
ATOM	2360	CA	GLN	320	50. 623	79.001	33. 246	1.00 16.12	Ä	C
ATOM	2361	CB	GLN	320	50. 939	77.516	33. 420	1.00 14.59	Ä	Č
ATOM	2362	CG	GLN	320	52.000	77.044	32. 444	1.00 12.17	A	C
ATOM	2363	CD	GLN	320	52. 304	75.577	32. 570	1.00 10.79	Ä	Ċ
ATOM	2364	0E1		320	51.431	74.734	32.403	1.00 12.70	Ä	0
ATOM	2365	NE2		320	53.554	75. 261	32.860	1.00 13.71	A	N
ATOM	2366	C	GLN	320	49.368	79.351	34.038	1.00 16.32	Α	С
ATOM	2367	Ŏ	GLN	320	48.645	78.466	34.472	1.00 14.51	Α	0
ATOM	2368	N	ASN	321	49.079	80.633	34. 207	1.00 18.37	Α	N
ATOM	2369	CA	ASN	321	47.871	81.010	34. 931	1.00 19.38	Α	C
<b>ATOM</b>	2370	CB	ASN	321	48.226	81.785	36. 203	1.00 20.21	Α	C
ATOM	2371	CG	ASN	321	48.776	83.166	35.925	1.00 23.59	Α	С
ATOM	2372	0D1	ASN	321	49.166	83.491	34.804	1.00 22.35	Α	0
ATOM	2373	ND2	ASN	321	48.801	83.975	36.980	1.00 27.82	Α	N
ATOM	2374	C	ASN	321	46.983	81.843	34.020	1.00 18.69	Α	C
ATOM	2375	0	ASN	321	46.095	82.555	34.479	1.00 19.10	Α	0
ATOM	2376	N	TYR	322	47.222	81.715	32.719	1.00 17.65	Α	N
ATOM	2377	CA	TYR	322	46.482	82.466	31.719	1.00 18.28	Α	C
ATOM	2378	CB	TYR	322	47.105	83.856	31.599	1.00 18.09	Α	C
ATOM	2379	CG	TYR	322	46.319	84.856	30. 792	1.00 20.14	Α	C
ATOM	2380	CD1	TYR	322	46.561	85.037	29. 428	1.00 21.33	Α	C
ATOM	2381	CE1		322	45.843	85.987	28. 694	1.00 22.14	Α	С
ATOM	2382		TYR	322	45. 340	85.645	31.401	1.00 20.00	Α	C
ATOM	2383		TYR	322	44.624	86.589	30. 681	1.00 19.18	Α	C
ATOM	2384	CZ	TYR	322	44.876	86. 758	29. 334	1.00 21.74	Α	С
ATOM	2385	OH	TYR	322	44. 163	87. 704	28.638	1.00 24.04	A	0
ATOM	2386	C	TYR	322	46.518	81.750	30. 363	1.00 18.70	A	C
ATOM	2387	0	TYR	322	47. 583	81.587	29. 764	1.00 18.36	A	0
ATOM	2388	N	SER	323	45. 351	81.318	29.896	1.00 17.43	A	N
ATOM	2389	CA	SER	323	45. 237	80.638	28. 612	1.00 17.45	A	C
ATOM	2390	CB	SER	323	44.871	79.163	28. 806	1.00 16.45	A	C
ATOM	2391	0G	SER	323	43.662	79. 025	29. 535	1.00 17.51	A	0
ATOM	2392	C	SER	323	44. 163	81.320	27. 777	1.00 17.88	A	C
ATOM	2393	0	SER	323	43. 250	81.943	28. 314	1.00 18.20	A	0
ATOM	2394	N	VAL	324	44. 277	81. 199	26. 461	1.00 18.44	A	N
ATOM	2395	CA	VAL	324	43.309	81.802	25. 555	1.00 18.83	A	C
ATOM	2396	CB	VAL	324	43. 925	82. 995	24. 800	1.00 19.32	A	C
ATOM	2397	CG1	VAL	324	42.944	83.509	23. 760	1.00 18.46	A	C
ATOM	2398		VAL	324	44. 290	84.105	25. 785	1.00 18.78	A	C
ATOM	2399	C	VAL	324	42. 839	80.776	24. 534	1.00 18.47	A	C 0
ATOM	2400	0	VAL	324	43. 631	79. 985	24.036	1.00 18.75	Α	U

		F ]	[G. 4-50		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2401 N MET 2402 CA MET 2403 CB MET 2404 CG MET 2405 SD MET 2406 CE MET 2407 C MET 2408 O MET 2409 N ASP 2410 CA ASP 2411 CB ASP 2411 CB ASP 2412 CG ASP 2413 OD1 ASP 2414 OD2 ASP 2415 C ASP 2416 O ASP 2417 N ILE	325       41. 549         325       41. 046         325       39. 832         325       39. 272         325       37. 681         325       38. 209         325       40. 641         325       39. 932         326       41. 114         326       42. 329         326       41. 511         326       43. 415         326       39. 924         326       40. 254	6       79.832       23.245         2       79.062       23.765         2       78.043       22.774         1       77.304       23.268         9       75.734       23.896         1       80.584       21.995         2       81.583       22.076         4       80.118       20.852         9       80.738       19.595         3       81.158       18.795         9       82.638       18.970         1       83.384       19.547         5       83.063       18.518         4       79.739       18.800         4       78.563       18.725	5 1.00 17.68 A 9 1.00 19.82 A 4 1.00 20.18 A 8 1.00 23.11 A 6 1.00 24.95 A 9 1.00 18.03 A 6 1.00 16.88 A 2 1.00 18.60 A 6 1.00 20.69 A 7 1.00 22.43 A 0 1.00 26.03 A 7 1.00 26.03 A 7 1.00 26.03 A 8 1.00 28.75 A 9 1.00 19.88 A	N C C C C O O C C O C O C O C O C O C O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2417 N ILE 2418 CA ILE 2419 CB ILE 2420 CG2 ILE 2421 CG1 ILE 2422 CD1 ILE 2423 C ILE 2424 O ILE 2425 N CYS 2426 CA CYS 2426 CA CYS 2427 C CYS 2428 O CYS 2429 CB CYS 2430 SG CYS 2431 N ASP	327       38. 832         327       36. 529         327       35. 600         327       36. 483         327       36. 483         327       35. 164         327       37. 625         328       38. 804         328       39. 069         328       38. 168         328       40. 564         328       41. 567         329       37. 729	79. 355 17. 419 79. 393 17. 941 78. 697 16. 985 78. 691 19. 305 78. 766 20. 006 79. 908 16. 015 79. 162 15. 161 79. 162 15. 161 79. 608 13. 805 78. 890 12. 721 77. 663 12. 705 79. 481 13. 547 79. 984 14. 986	A 1.00 22.22 A 1.00 20.50 A 1.00 19.07 A 1.00 21.51 A 1.00 20.97 A 1.00 23.66 A 1.00 26.18 A 1.00 26.09 A 1.00 27.13 A 1.00 27.13 A 1.00 27.70 A 1.00 27.02 A 1.00 27.02 A 1.00 28.23 A	C C C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2432 CA ASP 2433 CB ASP 2434 CG ASP 2435 OD1 ASP 2436 OD2 ASP 2436 OD2 ASP 2437 C ASP 2438 O ASP 2439 N TYR 2440 CA TYR 2441 CB TYR 2442 CG TYR 2443 CD1 TYR 2444 CE1 TYR 2445 CD2 TYR 2446 CE2 TYR 2447 CZ TYR 2448 OH TYR 2449 C TYR	329       36. 913         329       35. 595         329       34. 684         329       35. 181         329       37. 613         329       38. 314         330       37. 416         330       38. 027         330       38. 597         330       39. 919         330       37. 832         330       37. 832         330       39. 676         330       39. 676         330       37. 314	3       79.198       10.710         6       79.969       10.690         79.595       11.842         79.407       12.969         79.349       9.367         80.334       9.120         78.371       8.492         78.411       7.173         77.019       6.542         76.980       5.151         77.341       3.641         76.561       4.066         76.526       2.779         76.920       2.574         76.914       1.299	1.00 26.21 A 1.00 24.92 A 2.1.00 26.75 A 3.1.00 27.44 A 5.1.00 28.96 A 7.1.00 28.54 A 6.1.00 29.27 A 7.1.00 29.31 A 7.1.00 29.64 A 7.1.00 30.55 A 7.1.00 31.78 A 7.1.00 32.26 A 7.1.00 32.18 A 7.1.00 32.18 A 7.1.00 32.62 A 7.1.00 32.62 A 7.1.00 33.67 A 7.1.00 34.33 A	C C C C C C C C C C C C C C C C C C C

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						(Continued)
					F I G. 4 - 51	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2450 2451 2452 2453 2454 2455 2456 2457 2458 2459	0D2 C 0 N	TYR ASP ASP ASP ASP ASP ASP GLU	330 331 331 331 331 331 331 331 332	36. 098       79. 313       6. 058       1. 00       28.         38. 074       80. 308       5. 666       1. 00       31.         37. 511       81. 262       4. 730       1. 00       33.         38. 191       82. 618       4. 862       1. 00       36.         37. 573       83. 661       3. 956       1. 00       39.         37. 570       83. 455       2. 724       1. 00       40.         37. 084       84. 684       4. 479       1. 00       42.         37. 750       80. 696       3. 336       1. 00       35.         38. 865       80. 730       2. 817       1. 00       35.         36. 690       80. 170       2. 743       1. 00       36.	49 A N 80 A C 63 A C 35 A C 70 A O 41 A O 29 A C 63 A O 11 A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2460 2461 2462 2463 2464 2465 2466 2467 2468	CA CB CCD OE1 OE2 C	GLU GLU GLU GLU GLU GLU GLU SER	332 332 332 332 332 332 332 332 333	36. 755       79. 562       1. 426       1. 00       37.         35. 388       78. 970       1. 080       1. 00       38.         35. 234       78. 510       -0. 354       1. 00       43.         33. 869       77. 897       -0. 620       1. 00       47.         33. 494       77. 771       -1. 807       1. 00       48.         33. 175       77. 534       0. 358       1. 00       48.         37. 231       80. 465       0. 293       1. 00       38.         37. 846       79. 982       -0. 655       1. 00       39.         36. 968       81. 764       0. 375       1. 00       37.	87 A C 60 A C 15 A C 97 A O 40 A O 19 A C 73 A O 67 A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2469 2470 2471 2472 2473 2474 2475 2476	CA CB OG C O N CA CB	SER SER SER SER SER SER SER	333 333 333 333 334 334 334	37. 388     82. 652     -0. 704     1. 00     38.       36. 445     83. 858     -0. 814     1. 00     38.       36. 669     84. 795     0. 223     1. 00     40.       38. 826     83. 135     -0. 577     1. 00     37.       39. 324     83. 838     -1. 448     1. 00     38.       39. 496     82. 761     0. 506     1. 00     38.       40. 883     83. 163     0. 708     1. 00     37.       40. 995     84. 180     1. 844     1. 00     38.       40. 975     82. 732     3. 103     1. 20     38.	48 A C . 60 A O 74 A C 52 A O 49 A N 49 A C 50 A C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2477 2478 2479 2480 2481 2482 2483 2484 2485	OG C O N CA C O N	SER SER GLY GLY GLY ARG ARG	334 334 335 335 335 335 336 336	40. 954       83. 536       3. 108       1. 00       38.         41. 722       81. 947       1. 058       1. 00       35.         42. 941       82. 029       1. 148       1. 00       36.         41. 064       80. 817       1. 263       1. 00       35.         41. 797       79. 620       1. 620       1. 00       35.         42. 579       79. 872       2. 894       1. 00       35.         43. 574       79. 201       3. 172       1. 00       35.         42. 128       80. 855       3. 666       1. 00       33.         42. 783       81. 197       4. 919       1. 00       33.	98 A C 41 A O 13 A N 71 A C 19 A C 61 A O 99 A N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496		ARG ARG ARG ARG ARG ARG ARG TRP TRP	336 336 336 336 336 336 336 337 337	43. 066       82. 696       4. 991       1. 00       36.         43. 957       83. 232       3. 884       1. 00       42.         44. 807       84. 374       4. 416       1. 00       45.         44. 010       85. 359       5. 147       1. 00       48.         44. 510       86. 192       6. 055       1. 00       50.         45. 805       86. 159       6. 348       1. 00       52.         43. 718       87. 057       6. 675       1. 00       52.         41. 935       80. 801       6. 118       1. 00       30.         40. 763       80. 449       5. 981       1. 00       29.         42. 544       80. 869       7. 294       1. 00       26.         41. 869       80. 531       8. 533       1. 00       24.	78 A C 04 A C 76 A C 92 A N 76 A C 08 A N 33 A N 26 A C 07 A O
ATOM ATOM	2497 2498	CB CG	TRP TRP	337 337	42. 616 79. 403 9. 248 1. 00 19. 42. 460 78. 074 8. <u>561</u> 1. 00 15.	88 A C

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										(Continued)
					FΙ	G. 4	- 52			(Continued)
	0.400	an a	mp.p.	005				1 00 0 00		C
ATOM	2499		TRP	337	41.481	77. 077	8.861	1.00 9.80	A	C
ATOM	2500		TRP	337	41.651	76.026	7. 927	1.00 9.92	A	C
ATOM	2501		TRP	337	40.475	76. 970	9.825	1.00 7.74 1.00 12.90	A	C
ATOM	2502	CD1		337	43. 173	77.601	7. 485		A	C
ATOM	2503		TRP	337	42.688	76.369	7. 099	1.00 9.82	A	N C
ATOM	2504		TRP	337	40.849	74. 885	7. 935	1.00 9.71 1.00 7.79	A	C.
ATOM	2505		TRP	337	39.675	75. 836	9. 832 8. 894	1.00 7.79 1.00 10.33	A	C
ATOM	2506		TRP	337 337	39.866	74. 808	9. 425	1.00 10.33	A	C
ATOM	2507	C	TRP	337	41.783 42.794	81. 758 82. 360	9. 766	1.00 24.33	A	Ö
ATOM	2508 2509	0 N	TRP ASN	338	40.570	82. 128	9. 806	1.00 25.00	A A	N N
ATOM ATOM	2510	N CA	ASN	338	40.370	83. 296	10.648	1.00 25.00	A	C
ATOM	2511	CB	ASN	338	39.464	84. 300	9. 949	1.00 28.44	A	Č
ATOM	2512	CG	ASN	338	40.016	84. 761	8. 612	1.00 28.44	A	č
ATOM	2513		ASN	338	39. 320	84. 711	7. 596	1.00 32.04	A	ŏ
ATOM	2514		ASN	338	41.271	85. 217	8.606	1.00 28.33	A	N
ATOM	2515	C	ASN	338	39. 810	82. 958	12.012	1.00 25.29	A	Č
ATOM	2516	ŏ	ASN	338	38. 957	82.084	12. 148	1.00 25.29	A	ŏ
ATOM	2517	N	CYS	339	40. 293	83.668	13.023	1.00 25.00	A	Ň
ATOM	2518	CA	CYS	339	39. 833	83. 482	14. 389	1.00 24.73	A	Č
ATOM	2519	C	CYS	339	39. 289	84. 829	14.888	1.00 22.42	A	č
ATOM	2520	ŏ	CYS	339	40.051	85.717	15. 249	1.00 21.56	A	ŏ
ATOM	2521	CB	CYS	339	40. 992	83. 014	15. 285	1.00 25.93	A	č
ATOM	2522	SG	CYS	339	42. 199	81.865	14.526	1.00 29.61	A	Š
ATOM	2523	N	LEU	340	37. 968	84. 978	14.889	1.00 22.38	Ä	N
ATOM	2524	CA	LEU	340	37. 333	86. 212	15. 347	1.00 20.83	A	Č
ATOM	2525	CB	LEU	340	35. 839	86. 185	15.069	1.00 19.89	A	č
ATOM	2526	CG	LEU	340	35.364	86. 201	13.626	1.00 19.14	Ä	Č
ATOM	2527		LEU	340	33.877	85.883	13.593	1.00 19.65	Α	Ċ
ATOM	2528	CD2	LEU	340	35.647	87. 551	13.012	1.00 19.21	Α	C
ATOM	2529	С	LEU	340	37. 521	86.406	16.835	1.00 20.16	Α	C
ATOM	2530	0	LEU	340	37.337	85.478	17.615	1.00 20.80	Α	0
ATOM	2531	N	VAL	341	37.866	87.625	17.225	1.00 20.46	Α	N
ATOM	2532	CA	VAL	341	38.066	87. 949	18.627	1.00 20.11	Α	С
ATOM	2533	CB	VAL	341	38.536	89. 399	18.786	1.00 21.45	Α	С
ATOM	2534		VAL	341	38.972	89.647	20. 221	1.00 22.38	Α	С
ATOM	2535	CG2	VAL	341	39.688	89.672	17.819	1.00 24.28	Α	C
ATOM	2536	C	VAL	341	36.770	87. 749	19.403	1.00 18.51	Α	С
ATOM	2537	0	VAL	341	36.785	87. 423	20. 585	1.00 17.77	Α	0
ATOM	2538	N	ALA	342	35.644	87. 941	18. 731	1.00 19.68	Α	N
ATOM	2539		ALA	342	34.345		19.370	1.00 19.64	Α	C
ATOM	2540	CB	ALA	342	33. 228	88. 125	18. 407	1.00 18.89	A	C
ATOM	2541	C	ALA	342	34. 177		19.829	1.00 19.19	A	C
ATOM	2542	0	ALA	342	33. 245	85. 987	20.580	1.00 18.12	A	0
ATOM	2543	N	ARG	343	35.078		19.384	1.00 16.06	A	N
ATOM	2544	CA	ARG	343	35.008		19.766	1.00 16.37	A	C
ATOM	2545	CB	ARG	343	34.962		18. 521	1.00 18.14	A	C
ATOM	2546	CG	ARG	343	33.726		17.687	1.00 20.31	A	C
ATOM	2547	CD	ARG	343	33.803	82.695	16. 357	1.00 21.82	Α	С

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					r 1	G. 4	- 5 3				
ATOM	2548	NE	ARG	343	32.615	82. 969	15.561	1.00 23.94	Α	N	
ATOM	2549	CZ	ARG	343	32. 373	82.415	14.383	1.00 26.14	Α	С	
ATOM	2550	NH1	ARG	343	33. 242	81.559	13.864	1.00 28.42	Α	N	
ATOM	2551	NH2	ARG	343	31.256	82.703	13.734	1.00 30.23	Α	N	
ATOM	2552	C	ARG	343	36. 164	83.603	20.650	1.00 17.09	Α	C	
ATOM	2553	0	ARG	343	36. 275	82. 452	21.057	1.00 16.76	Α	0	
ATOM	2554	N	GLN	344	37. 030	84. 553	20. 955	1.00 18.05	Α	N	
ATOM	2555	CA	GLN	344	38. 175	84. 267	21.791	1.00 18.90	Α	C	
ATOM	2556	CB	GLN	344	39. 191	85. 385	21.645	1.00 18.03	A	C	
ATOM	2557	CG	GLN	344	40. 585	85. 012	22. 038	1.00 17.99	A	C C	
ATOM	2558	CD	GLN	344	41. 571	86. 088	21.657	1.00 18.02	A		
ATOM	2559		GLN	344	41.711	87. 089	22. 353	1.00 17.71	A	0	
ATOM	2560		GLN	344	42. 246	85. 897	20. 527	1.00 17.42	A	N	
ATOM	2561	C	GLN	344	37. 708	84.170	23. 234	1.00 19.61	A	C	
ATOM	2562	0	GLN	344	37.069	85. 087	23. 730	1.00 21.89	A	0	
ATOM	2563	N	HIS	345	38. 013	83.057	23. 897	1.00 18.47	A	N	
ATOM	2564	CA	HIS	345	37.624	82.868	25. 287	1.00 17.92	A	C	
ATOM ATOM	2565 2566	CB CG	HIS HIS	345	36. 786	81.600	25. 453	1.00 16.07	A	C	
ATOM	2567		HIS	345 345	35. 478	81.641	24. 726	1.00 15.01	A	C	
ATOM	2568		HIS	345 345	34. 223 35. 371	81.895 81.420	25. 164 23. 369	1.00 14.43 1.00 15.56	A	C	
ATOM	2569		HIS	345	34. 108	81. 535	23. 002	1.00 13.50	A	N C	
ATOM	2570		HIS	345	33. 390	81. 823	24. 073	1.00 12.37	A A	N	
ATOM	2571	C	HIS	345	38. 854	82. 789	26. 172	1.00 14.20	A	C	
ATOM	2572	ŏ	HIS	345	39. 839	82. 129	25. 825	1.00 13.04	A	Õ	
ATOM	2573	Ň	ILE	346	38. 790	83. 460	27. 319	1.00 20.11	A	N	
ATOM	2574	CA	ILE	346	39. 899	83. 501	28. 264	1.00 21.08	A	C	
<b>ATOM</b>	2575	CB	ILE	346	40. 135	84. 928	28. 760	1.00 20.44	A	č	
<b>ATOM</b>	2576		ILE	346	41.357	84. 972	29.667	1.00 20.95	Ä	Č	
ATOM	2577		ILE	346	40. 338	85.860	27. 572	1.00 19.87	Ä	č	
ATOM	2578	CD1	ILE	346	40.466	87. 298	27.978	1.00 22.20	A	Č	
ATOM	2579	C	ILE	346	39.657	82.624	29.482	1.00 23.76	A	Č	
ATOM	2580	0	ILE	346	38. 535	82.537	29.975	1.00 24.67	Α	0	
ATOM	2581	N	GLU	347	40.714	81.976	29.967	1.00 25.01	Α	N	
ATOM	2582	CA	GLU	347	40.601	81.123	31.141	1.00 28.30	Α	С	
ATOM	2583	CB	GLU	347	40. 459	79.656	30. 733	1.00 26.51	Α	С	
ATOM	2584	CG	GLU	347	40.089	78.740	31.891	1.00 27.38	Α	С	
ATOM	2585	CD	GLU	347	40.169	77. 268	31.527	1.00 29.51	A	C	
ATOM	2586	0E1	GLU	347	39.877	76.936	30. 359	1.00 29.48	A	0	
ATOM	2587			347	40.511	76. 439	32. 405	1.00 29.57	A	0	
ATOM	2588	C	GLU	347	41.836	81.288	32. 021	1.00 30.87	A	C	
ATOM	2589	0	GLU	347	42.865	80.661	31.777	1.00 33.35	A	0	
ATOM	2590 2591	N CA	MET	348	41.741	82. 131	33. 044	1.00 32.50	A	N	
ATOM ATOM	2591 2592	CA CB	MET MET	348 348	42.877	82.347	33.926	1.00 34.46	A	C	
ATOM	2593	CG	MET	348 348	43. 215 42. 168	83. 843 84. 723	34.002	1.00 37.48	A	C	
ATOM	2594	SD	MET	348	42. 108	86.340	34. 661 33. 825	1.00 41.62 1.00 48.03	A	C	
ATOM	2595	CE	MET	348	42.028	87. 158	34. 341	1.00 46.03	A A	S C	
ATOM	2596	C	MET	348	42.628	81.784	35. 315	1.00 40.00	A	Č	
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					FΙ	G. 4	- 54			(0011	
								1 00 04 25	A	Λ	
ATOM	2597	0	MET	348	41.656	81.070	35. 541	1.00 34.35 1.00 32.30	A	0 N	
ATOM	2598	N	SER	349	43. 534	82.085	36. 235		A	N C	
ATOM	2599	CA	SER	349	43. 428	81.623	37.612	1.00 31.26	A	Č	
ATOM	2600	CB	SER	349	43. 961	80. 197	37. 744	1.00 31.22	A	0	
ATOM	2601	0G	SER	349	43. 912	79.760	39.090	1.00 32.92	A	C	
ATOM	2602	C	SER	349	44. 244	82.573	38. 474	1.00 31.16	A	0	
ATOM	2603	0	SER	349	45. 355	82.950	38. 113	1.00 31.25	A	N	
ATOM	2604	N	THR	350	43. 682	82.962	39.611	1.00 30.83	A	C	
ATOM	2605	CA	THR	350	44. 340	83.896	40.516	1.00 28.43	A	Č	
ATOM	2606	CB	THR	350	43. 325	84. 938	41.027	1.00 28.93	A		
ATOM	2607	0G1	THR	350	42. 251	84. 268	41.703	1.00 27.68	A	0	
ATOM	2608	CG2		350	42. 751	85. 733	39. 864	1.00 27.87	A	C C	
ATOM	2609	C	THR	350	44. 971	83. 198	41.714	1.00 27.14	A		
ATOM	2610	0	THR	350	45. 781	83. 786	42. 431	1.00 27.62	A	0 N	
ATOM	2611	N	THR	351	44.610	81.936	41.913	1.00 25.72	A	N	
ATOM	2612	CA	THR	351	45. 109	81. 161	43.035	1.00 24.77	A	C	
ATOM	2613	CB	THR	351	43. 945	80. 536	43. 786	1.00 25.52	A	C	
ATOM	2614	0G1	THR	351	43. 166	79. 746	42.877	1.00 24.95	A	0	
ATOM	2615		THR	351	43. 069	81.617	44. 385	1.00 24.61	A	C	
ATOM	2616	C	THR	351	46.081	80. 047	42.659	1.00 25.48	A	C	
ATOM	2617	0	THR	351	46. 648	79. 392	43. 535	1.00 25.57	A	0	
ATOM	2618	N	GLY	352	46. 261	79. 825	41.361	1.00 25.19	A	N	
ATOM	2619	CA	GLY	352	47. 170	78. 786	40. 909	1.00 24.62	A	C	
ATOM	2620	C	GLY	352	47. 371	78. 797	39. 403	1.00 24.61	A	C	
ATOM	2621	0	GLY	352	47. 417	79. 853	38. 774	1.00 25.15	A	0	
ATOM	2622	N	TRP	353	47. 499	77. 612	38. 825	1.00 23.36	A	N	
ATOM	2623	CA	TRP	353	47. 684	77. 470	37. 390	1.00 21.38	A	C	
ATOM	2624	CB	TRP	353	48. 631	76. 291	37. 116	1.00 17.49	A	C	
ATOM	2625	CG	TRP	353	48. 272	75. 023	37. 849	1.00 16.34	A	C	
ATOM	2626		TRP	353	48. 587	74. 693	39. 209	1.00 14.04	A	C	
ATOM	2627		TRP	353	48. 053	73. 409	39. 462	1.00 14.33	A	C	
ATOM	2628		TRP	353	49. 270	75. 356	40. 238	1.00 14.55	A	C	
ATOM	2629		TRP	353	47. 578	73. 957	37. 351	1.00 14.89	A	C	
ATOM	2630		TRP	353	47. 445	72. 985	38. 311	1.00 12.84	A	N	
ATOM	2631		TRP	353	48. 180		40. 709	1.00 14.93	A	C	
ATOM	2632		TRP	353	49. 398		41.480	1.00 15.27	A	C	
ATOM	2633		TRP	353	48. 853		41.700	1.00 15.07	A	C	
ATOM	2634	C	TRP	353	46.303		36. 782	1.00 22.43	A	C	
ATOM	2635	0	TRP	353	45. 307	77. 292	37. 495	1.00 22.69	A	0	
ATOM	2636	N	VAL	354	46. 231	76.990	35. 479	1.00 22.83	A	N	
ATOM	2637	CA	VAL	354	44.944		34. 836	1.00 24.15	A	C	
ATOM	2638	CB	VAL	354	44.818		33. 498	1.00 25.09	A	C	
ATOM	2639		VAL	354	43.610		32. 718	1.00 24.29	A	C	
ATOM	2640	CG2		354	44. 673		33. 762	1.00 24.71	A	C	
ATOM	2641	C	VAL	354	44. 799		34. 569	1.00 24.96	A	0	
ATOM	2642	0	VAL	354	45. 751		34. 127	1.00 26.10	A	N N	
ATOM	2643	N	GLY	355	43. 609		34. 841	1.00 24.28	Α	C	
ATOM	2644	CA	GLY	355	43. 354		34.640	1.00 22.67	A	C	
ATOM	2645	C	GLY	355	44. 040	72.457	35.696	1.00 22.77	Α	C	

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(Continued)											
					FIG. 4-55						
ATOM	2646	0	GLY	355	44.743 72.989 36.548 1.00 22.56 A	0					
ATOM	2647	N	ARG	356	43. 843 71. 145 35. 668 1. 00 23. 29 A	N					
ATOM	2648	CA	ARG	356	44.505 70.299 36.654 1.00 24.86 A	С					
ATOM	2649	CB	ARG	356	43. 927 68. 886 36. 645 1. 00 24. 91 A	C					
ATOM	2650	ĊĞ	ARG	356	42. 495 68. 808 37. 122 1. 00 27. 84 A	C					
ATOM	2651	CD	ARG	356	41. 973 67. 391 37. 036 1. 00 31. 58 A	C					
ATOM	2652	NE	ARG	356	40. 518 67. 340 37. 149 1. 00 35. 53 A	N					
ATOM	2653	CZ	ARG	356	39. 849 67. 607 38. 261 1. 00 37. 59 A	C					
ATOM	2654		ARG	356	40.513 67.939 39.362 1.00 40.39 A	N					
ATOM	2655	NH2	ARG	356	38. 520 67. 547 38. 272 1. 00 37. 65 A	N					
ATOM	2656	C	ARG	356	45. 989 70. 255 36. 314 1. 00 25. 60 A	C					
ATOM	2657	0	ARG	356	46. 844 70. 508 37. 163 1. 00 28. 06 A	0					
ATOM	2658	N	PHE	357	46. 285 69. 940 35. 060 1. 00 23. 61 A	N					
ATOM	2659	CA	PHE	357	47. 659 69. 876 34. 587 1. 00 21. 95 A	C					
ATOM	2660	CB	PHE	357	48. 029 68. 442 34. 205 1. 00 15. 99 A	C					
ATOM	2661	CG	PHE	357	48. 173 67. 524 35. 380 1. 00 12. 89 A	C					
ATOM	2662		PHE	357	49. 361 67. 491 36. 115 1. 00 11. 73 A	C					
ATOM	2663		PHE	357	47. 126 66. 693 35. 763 1. 00 10. 46 A	C					
ATOM	2664		PHE	357	49. 507 66. 638 37. 216 1. 00 7. 55 A	C					
ATOM	2665		PHE	357	47. 263 65. 838 36. 863 1. 00 11. 70 A	C					
ATOM	2666	CZ	PHE	357	48. 459 65. 811 37. 591 1. 00 6. 24 A	C					
ATOM	2667	Ç	PHE	357	47. 775 70. 786 33. 377 1. 00 23. 17 A	C					
ATOM	2668	0	PHE	357	48. 877 71. 196 33. 005 1. 00 26. 25 A	0					
ATOM	2669	N	ARG	358	46. 626 71. 100 32. 782 1. 00 20. 84 A	N					
ATOM	2670	CA	ARG	358	46. 541 71. 972 31. 615 1. 00 20. 05 A	C					
ATOM	2671	CB	ARG	358	47. 156 71. 297 30. 396 1. 00 19. 30 A	C					
ATOM	2672	CG	ARG	358	46. 496 69. 991 30. 011 1. 00 21. 15 A	C					
ATOM	2673	CD	ARG	358	46. 866 69. 613 28. 598 1. 00 24. 58 A	C					
ATOM	2674	NE CZ	ARG	358	46. 293 68. 333 28. 205 1. 00 31. 68 A	N					
ATOM	2675	CZ	ARG	358	46. 163 67. 924 26. 943 1. 00 34. 22 A 46. 564 68. 701 25. 939 1. 00 31. 56 A	C N					
ATOM	2676		ARG	358		N N					
ATOM	2677		ARG	358		C					
ATOM	2678	C 0	ARG ARG	358 358	45.081 72.315 31.313 1.00 20.40 A 44.168 71.608 31.734 1.00 20.47 A	Ö					
ATOM ATOM	2679 2680	N	PRO	359	44. 840 73. 404 30. 570 1. 00 21. 33 A	N					
ATOM	2681	CD	PRO	359	45. 785 74. 338 29. 940 1. 00 20. 09 A	Ċ					
ATOM	2682	CA	PRO	359	43. 455 73. 772 30. 254 1. 00 21. 44 A	č					
ATOM	2683	CB	PRO	359	43. 624 74. 911 29. 264 1. 00 20. 76 A	Č					
ATOM	2684	CG	PRO	359	44. 907 75. 539 29. 713 1. 00 21. 86 A	Č					
ATOM	2685	Č	PRO	359	42.741 72.574 29.652 1.00 21.94 A	Č					
ATOM	2686	ŏ	PRO	359	43. 314 71. 866 28. 827 1. 00 21. 94 A	Ō					
ATOM	2687	Ň	SER	360	41.499 72.350 30.070 1.00 22.48 A	N					
ATOM	2688	ĊA	SER	360	40. 723 71. 208 29. 596 1. 00 24. 26 A	С					
ATOM	2689	CB	SER	360	39.501 70.986 30.497 1.00 25.29 A	С					
ATOM	2690	OG ·	SER	360	38.505 71.976 30.283 1.00 27.66 A	0					
ATOM	2691	C	SER	360	40. 262 71. 280 28. 140 1. 00 25. 67 A	С					
ATOM	2692	0	SER	360	40.117 72.359 27.555 1.00 25.66 A	0					
ATOM	2693	N	GLU	361	40.024 70.104 27.573 1.00 25.65 A	N					
ATOM	2694	CA	GLU	361	39. 581 69. 972 26. 199 1. 00 27. 20 A	С					

												(Co	ntinued)
					F	G.	4	- 56				•	
ATOM	2695	СВ	GLU	361	39. 80	8 68	540	25. 713	1 00	30. 37	Α	С	
ATOM	2696		GLU	361	39. 35		444	26. 683		36. 42	A	č	
ATOM	2697		GLU	361	40. 340		226	27. 839		42.80	A	č	
ATOM	2698	0E1		361	40. 31		002	28. 822		43.77	A	ŏ	
ATOM	2699	0E2		361	41. 15		274	27. 757		46.60	A	Ŏ	
ATOM	2700		GLU	361	38. 11		324	26. 052		25.88	A	Č	
ATOM	2701		GLU	361	37. 29		955	26. 888		27. 12	A	ŏ	
ATOM	2702		PRO	362	37. 760		061	24. 989		23.97	A	Ň	
ATOM	2703		PRO	362	38. 650		837	24. 106		23. 33	A	C	
ATOM	2704		PRO	362	36. 36		436	24. 767		22.45	A	č	
ATOM	2705		PRO	362	36. 48		714	23. 945		23. 21	A	č	
ATOM	2706		PRO	362	37. 679		437	23. 100		21.08	A	č	
ATOM	2707		PRO	362	35. 62		338	24. 013		21.91	A	č	
ATOM	2708		PRO	362	36. 21		582	23. 249		22.96	A	ŏ	
ATOM	2709		HIS	363	34. 318		259	24. 245		21.59	A	Ň	
ATOM	2710		HIS	363	33. 459		280	23. 596		19.88	A	Ċ	
ATOM	2711		HIS	363	32. 868		353	24. 649		18.03	A	Č	
ATOM	2712		HIS	363	33. 898		568	25. 398		16.56	A	Č	
ATOM	2713	CD2		363	34. 63		880	26. 489		16.19	A	Č	
ATOM	2714	ND1		363	34. 29		303	25. 019		14.56	Ā	Ň	
ATOM	2715	CE1		363	35. 22	65.	869	25. 843		14.60	A	C	
ATOM	2716	NE2		363	35. 45		808	26. 744		16.65	A	Ň	
ATOM	2717		HIS	363	32. 36		081	22. 903		20.84	A	C	
ATOM	2718		HIS	363	31. 53		709	23. 564		20.84	A	Õ	
ATOM	2719		PHE	364	32. 38	3 70.	075	21.573		19.87	Ä	Ň	
ATOM	2720		PHE	364	31.41			20. 786		18.84	A	C	
ATOM	2721		PHE	364	32. 043		310	19.470		18.67	Ā	Č	
ATOM	2722		PHE	364	33.07		390	19.629		18.84	Α	C	
ATOM	2723	CD1		364	34. 34		096	20.117		17.51	Α	C	
ATOM	2724	CD2		364	32.77		708	19. 274	1.00	16.76	Α	C	
<b>ATOM</b>	2725	CE1		364	35. 29		095	20. 246		16.92	Α	C	
ATOM	2726	CE2		364	33. 72		711	19.401	1.00	16.24	Α	С	
ATOM	2727		PHE	364	34.98	3 74.	404	19.886	1.00	16.59	Α	C	
ATOM	2728	C	PHE	364	30. 173	2 70.	046	20.432	1.00	19.35	Α	C	
ATOM	2729	0	PHE	364	30. 22	68.	831	20. 262	1.00	20.71	Α	0	
ATOM	2730	N	THR	365	29.05	70.	750	20.313	1.00	18.81	Α	N	
ATOM	2731	CA	THR	365	27. 80	<b>70.</b>	113	19.912	1.00	18.11	Α	С	
ATOM	2732	CB	THR	365	26.60	71.	017	20.161	1.00	17.38	Α	C	
ATOM	2733	0G1	THR	365	26.52	71.	991	19.119	1.00	22.40	Α	0	
ATOM	2734	CG2	THR	365	26.74	71.	734	21.487	1.00	13.72	Α	C	
ATOM	2735	С	THR	365	28.00	l 69.	954	18. 409		17.58	Α	C	
ATOM	2736	0	THR	365	28. 823		650	17. 824		16.70	Α	0	
ATOM	2737		LEU	366	27. 25		058	17. 784		19.74	Α	N	
ATOM	2738		LEU	366	27. 38		799	16.350		19.89	Α	C	
ATOM	2739		LEU	366	26. 23'		923	15.860		19.49	A	C	
ATOM	2740		LEU	366	26. 33		381	14. 431		19.63	A	C	
ATOM	2741	CD1		366	27. 60		542	14. 282		20.45	A	C	•
ATOM	2742	CD2		366	25. 113		539	14. 128		17.80	A	C	
ATOM	2743	С	LEU	366	27. 50	3 70.	017	15. 438	1.00	21.11	Α	С	

										(Continued)
					FI	G. 4	- 5 7			
ATOM	2744	0	LEU	366	28. 269	69. 989	14. 476	1.00 24.21	Α	0
ATOM	2745	N	ASP	367	26.764	71.084	15.722	1.00 21.26	Α	N
ATOM	2746	CA	ASP	367	26. 830	72. 261	14.867	1.00 22.95	Α	C
ATOM	2747	CB	ASP	367	25. 567	73.114	15.005	1.00 26.09	Α	C
ATOM	2748	CG	ASP	367	25. 458		16.355	1.00 29.82	Α	C
ATOM	2749		ASP	367	26. 469		17.094	1.00 28.76	Α	0
ATOM	2750	0D2	ASP	367	24. 352	74. 296	16.669	1.00 31.88	Α	0
ATOM	2751	C	ASP	367	28. 047		15. 139	1.00 22.76	Α	C
ATOM	2752	0	ASP	367	28. 274		14. 448	1.00 25.46	Α	0
ATOM	2753	N	GLY	368	28. 818		16. 155	1.00 21.02	Α	N
ATOM	2754	CA	GLY	368	30. 001	73. 541	16.480	1.00 18.54	Α	С
ATOM	2755	C	GLY	368	29. 740		16. 987	1.00 17.42	Α	С
ATOM	2756	0	GLY	368	30.678		17. 237	1.00 17.82	Α	0
ATOM	2757	N	ASN	369	28. 482		17. 164	1.00 17.57	Α	N
ATOM	2758	CA	ASN	369	28. 196		17.647	1.00 17.82	Α	С
ATOM	2759	CB	ASN	369	26. 838		17. 144	1.00 18.92	Α	С
ATOM	2760	CG	ASN	369	26. 797		15.649	1.00 22.41	Α	C
ATOM	2761	OD1		369	27. 657	77.871	15.038	1.00 23.56	A	0
ATOM	2762		ASN	369	25. 798		15.038	1.00 26.52	A	N
ATOM	2763	C	ASN	369	28. 270	76. 838	19. 158	1.00 16.27	Ą	C
ATOM ATOM	2764 2765	0	ASN	369	28. 185	77. 949	19.665	1.00 16.44	A	0
ATOM	2766	N CA	SER	370	28. 432	75. 742	19. 882	1.00 15.67	A	N
ATOM	2767	CB	SER SER	370	28. 533	75. 824	21.330	1.00 16.34	A	C
ATOM	2768	OG	SER	370 370	27. 145 26. 523	75. 766	21.971	1.00 14.45	A	C
ATOM	2769	C	SER	370	29. 381	74.518	21.739	1.00 14.37	A	0
ATOM	2770	Ö	SER	370	29. 565	74. 660 73. 701	21. 797 21. 058	1.00 16.66 1.00 18.15	A	C
ATOM	2771	N	PHE	371	29. 910	74. 742	23. 014	1.00 18.15	A	0
ATOM	2772	CA	PHE	371	30. 735	73. 660	23. 532	1.00 17.09	A	N C
ATOM	2773	CB	PHE	371	32. 194	73. 808	23. 062	1.00 10.28	A	C
ATOM	2774	CG	PHE	371	32. 881	75.062	23. 546	1.00 14.83	A A	C C
ATOM	2775		PHE	371	32. 799	76. 243	22.818	1.00 11.07	A	C
ATOM	2776		PHE	371	33. 635	75. 050	24. 726	1.00 11.07	A	C
ATOM	2777		PHE	371	33. 465	77. 409	23. 256	1.00 12.04	A	C
ATOM	2778		PHE	371	34. 302	76. 205	25. 178	1.00 9.92	A	Č
ATOM	2779	CZ	PHE	371	34. 219	77. 383	24. 444	1.00 9.76	A	Č
ATOM	2780	C	PHE	371	30.703	73. 545	25.048	1.00 16.26	A	č
ATOM	2781	0	PHE	371	30. 362	74.495	25.752	1.00 15.15	Ä	Ö
ATOM	2782	N	TYR	372	31.053	72.360	25.536	1.00 16.67	Ä	N
ATOM	2783	CA	TYR	372	31.091	72.089	26.962	1.00 16.84	A	Ċ
ATOM	2784	CB	TYR	372	30. 349	70.801	27. 271	1.00 16.79	A	Č
ATOM	2785	CG	TYR	372	28. 892	70.879	26.914	1.00 18.47	A	Ċ
ATOM	2786		TYR	372	28. 470	70.744	25.589	1.00 16.97	Α	С
ATOM	2787	CE1		372	27. 129	70.850	25. 255	1.00 19.91	Α	C
ATOM	2788	CD2		372	27. 931	71.124	27.901	1.00 18.26	Α	C
ATOM	2789	CE2		372	26. 592	71. 235	27. 581	1.00 19.23	Α	C
ATOM	2790	CZ	TYR	372	26. 193	71.097	26. 258	1.00 21.51	Α	C
ATOM	2791	OH	TYR	372	24. 860	71. 210	25.944	1.00 23.32	A	0
ATOM	2792	C	TYR	372	32. 547	71.977	27. 367	1.00 18.35	Α	С

					FIC	G. 4	- 58			(Continued)
ATOM ATOM	2793 2794	0 N	TYR LYS	372 373	33. 388 32. 845	71. 557 72. 325	26. 571 28. 611	1.00 20.30 1.00 18.89	A A	0 N
ATOM ATOM	2795 2796	CA CB	LYS LYS	373 373	34. 224 34. 907	72. 318 73. 541	29. 071 28. 459	1.00 19.69 1.00 19.69	A A	Ç C
ATOM ATOM	2797 2798	CG CD	LYS LYS	373 373	36. 302 36. 658	73. 863 75. 193	28. 889 28. 240	1.00 20.48 1.00 23.59	A A	C C
ATOM ATOM	2799 2800	CE NZ	LYS LYS	373 373	38. 048 38. 103	75. 703 77. 196	28. 601 28. 404	1.00 25.15 1.00 24.26	A A	C N
ATOM ATOM	2801 2802	C 0	LYS LYS	373 373	34. 277 33. 474	72. 369 73. 050	30. 593 31. 231	1.00 20.26 1.00 21.08	A A	C 0
ATOM ATOM	2803 2804	N CA	ILE ILE	374 374	35. 215 35. 358	71. 634 71. 624	31. 176 32. 621	1.00 20.43 1.00 19.63	A A	N C
ATOM ATOM	2805 2806		ILE ILE	374 374	35. 960 36. 100	70. 309 70. 361	33. 123 34. 650	1.00 19.72 1.00 19.46	A A	C C
ATOM ATOM	2807 2808	CD1		374 374		69. 128 67. 753	32. 667 33. 079	1.00 19.17 1.00 15.57	A A	C C
ATOM ATOM	2809 2810	C 0	ILE	374 374	37.408	72. 745 72. 846	33. 046 32. 551	1.00 19.75 1.00 21.23	A · A	C 0
ATOM ATOM	2811 2812	N CA	ILE	375 375	36.643	73. 595 74. 684	33. 951 34. 456	1.00 20.12 1.00 20.15	A A	N C
ATOM ATOM ATOM	2813 2814 2815		ILE	375 375	36.685	76. 014 75. 837	33. 700 32. 215	1.00 20.38 1.00 20.24	A A	C C
ATOM ATOM	2816 2817	CD1 C	ILE ILE ILE	375 375 375	34.645	76. 488 77. 772 74. 893	33. 919 33. 186	1.00 20.36 1.00 21.00	A A	C C
ATOM ATOM	2818 2819	0 N	ILE SER	375 376	35. 283	74. 512 75. 481	35. 929 36. 426 36. 634	1.00 21.63 1.00 21.72 1.00 22.04	A A	C 0
ATOM ATOM	2820 2821	CA CB	SER SER	376 376	37. 132	75. 740 76. 228	38. 051 38. 632	1.00 23.67 1.00 21.76	A A A	N C C
ATOM ATOM	2822 2823	OG C	SER SER	376 376	38. 336	76. 411 76. 809	40. 022 38. 210	1.00 26.97 1.00 24.46	A A	0 C
ATOM ATOM	2824 2825	0 N	SER ASN	376 377	36.042	77. 768 76. 659	37. 445 39. 177	1.00 27.59 1.00 25.41	A A	O N
ATOM ATOM	2826 2827	CA CB	ASN ASN	377 377	34. 128	77. 673 77. 023	39. 356 39. 602	1.00 26.19 1.00 25.06	A A	C C
ATOM ATOM	2828 2829		ASN ASN	377 377	33. 560 <i>'</i>	76. 222 76. 294	40. 894 41. 750	1.00 22.15 1.00 23.03	A A	C 0
ATOM ATOM	2830 2831	C	ASN ASN	377 377	34. 447	75. 457 78. 685	41. 039 40. 456	1.00 20.01 1.00 28.48	A A	N C
ATOM ATOM	2832 2833	0 N	ASN GLU	377 378	33. 461	78. 733 79. 498	40. 960 40. 822	1.00 29.51 1.00 30.42	A A	O N
ATOM ATOM ATOM	2834 2835 2836	CA CB CG	GLU GLU GLU	378 378 378	32.401 8	80. 518 81. 390	41.845	1.00 33.25 1.00 36.97	A A	C C
ATOM ATOM ATOM	2837 2838	CD OE1	GLU GLU	378 378	31.099 8	82.505 83.430 82.970	40. 939 41. 148 40. 972	1.00 44.33 1.00 49.20	A A	C
ATOM ATOM	2839 2840		GLU GLU	378 378	31.312	34. 619 79. 975	40. 972 41. 489 43. 208	1.00 51.65 1.00 50.97 1.00 32.75	A A	0 0 C
ATOM	2841	ŏ	GLU	378		30. 718	43. 208	1.00 32.75	A A	C 0

												(Co	ntinued)
					F	IG.	4	- 59				,	•
ATOM ATOM ATOM	2842 2843 2844	N CA CB	GLU GLU GLU	379 379 379	33. 84 34. 19 33. 08	2 78 3 77	3. 687 3. 070 7. 141	43. 436 44. 709 45. 182	1.00 1.00	31. 75 31. 73 35. 37	. A A A	N C C	
ATOM ATOM	2845 2846	CG CD	GLU GLU	379 379	31. 75 30. 67		7. 788 5. 751	45. 416 45. 677	1.00	40. 59 46. 30	A A	C C	
ATOM ATOM	2847 2848	0E1 0E2		379 379	30. 36 30. 15		5. 976 5. 700	44. 741 46. 815		48. 81 49. 11	A A	0	
ATOM	2849	C	GLU	379	35.46	6 77	7. 252	44.589	1.00	30. 70 30. 56	A A	C 0	
ATOM ATOM	2850 2851	0 N	GLU GLY	379 380	35. 98 35. 98	6 77	6. 712 7. 136	45. 578 43. 373	1.00	29.06	Α	N	
ATOM ATOM	2852 2853	CA C	GLY GLY	380 380	37. 20 36. 97		6. 377 1. 931	43. 171 42. 781		27. 19 27. 69	A A	C	
ATOM	2854	0 N	GLY TYR	380 381	37. 93 35. 72	5 74	1. 167 1. 540	42. 662 42. 586	1.00	27. 62 26. 46	A A	0 N	
ATOM ATOM	2855 2856	CA	TYR	381	35. 43	4 73	3. 167	42. 191	1.00	26.78	Α	С	
ATOM ATOM	$\begin{array}{c} 2857 \\ 2858 \end{array}$	CB CG	TYR TYR	381 381	34. 17 34. 39	4 72	2. 671 2. 448	42. 903 44. 379	1.00	26. 62 24. 99	A A	Č	
ATOM ATOM	2859 2860	CD1 CE1	TYR TYR	381 381	34. 86 35. 14		1.225 1.035	44. 853 46. 204		24. 93 26. 71	A A	C C C	
ATOM ATOM	2861 2862		TYR	381 381	34. 20 34. 48		3. 486 3. 312	45. 296 46. 647		25. 27 26. 88	A A	C	
ATOM	2863	CZ	TYR	381	34. 95	5 72	2. 082	47. 097 48. 429	1.00	28. 08 28. 31	A A	Č O	
ATOM ATOM	2864 2865	OH C	TYR TYR	381 381	35. 26 35. 26	1 73	3. 100	40.678	1.00	26.94	Α	C	
ATOM ATOM	2866 2867	O N	TYR ARG	381 382	34. 54 35. 93		3. 911 2. 147	40. 091 40. 045		28. 94 24. 97	A A	0 N	
ATOM ATOM	2868 2869	CA CB	ARG ARG	382 382	35. 85 37. 05		2.003	38. 600 38. 081		22. 04 24. 10	A A	C	
ATOM	2870	CG	ARG	382 382	38. 32 39. 60	2 72	2.045	38. 110 38. 141	1.00	24. 01 24. 10	A A	C C C	
ATOM ATOM	2871 2872	CD NE	ARG ARG	382	40.64	7 72	2.083	38. 712	1.00	23. 35	Α	N	
ATOM ATOM	2873 2874	CZ NH1	ARG ARG	382 382	41. 17 40. 78	3 73	3. 132 3. 449	38. 096 36. 868	1.00	23. 31 21. 52	A A	C N	
ATOM ATOM	2875 2876	NH2 C	ARG ARG	$\begin{array}{c} 382 \\ 382 \end{array}$	42. 05 34. 54		3. 907 1. 359	38. 738 38. 186		22. 46 20. 92	A A	N C	
ATOM ATOM	2877 2878	0 N	ARG HIS	382 383	34. 18 33. 84	9 70	0. 270 2. 068	38. 645 37. 313	1.00	18. 12 20. 45	A A	0 N	
ATOM	2879	CA	HIS	383	32. 54	5 71	1.647	36.813	1.00	20.33	Α		
ATOM ATOM	2880 2881		HIS HIS	383 383	31. 44 31. 17	77 71	2. 370	37. 581 38. 939	1.00	20. 76 22. 34	A A	C C	
ATOM ATOM	2882 2883	ND1	HIS HIS	383 383	31. 59 30. 41	8 70	2. 189 0. 661	40. 168 39. 132	1.00	21. 75 20. 42	A A	C N	
ATOM ATOM	2884 2885		HIS HIS	383 383	30. 37 31. 07		0. 380 1. 291	40. 422 41. 073	1.00 1.00	22. 91 22. 25	A A	C N	
ATOM ATOM	2886 2887	C 0	HIS HIS	383 383	32. 40 33. 24	4 7	1.930 2.608	35. 330 34. 728	1.00	20.36 19.84	A A	C 0	
ATOM	2888 2889	N CA	ILE	384 384	31. 32 31. 0	5 7	1.420 1.589	34. 748 33. 329	1.00	19. 26 17. 93	A A	N C	
ATOM ATOM	2890	CB	ILE	384	30. 23		0.419	32. 802		17. 52	A	Č	

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(Continued)

#### FIG. 4-60 2891 CG2 ILE 384 30.005 70.566 31.290 **ATOM** 1.00 15.28 Α 2892 384 33.155 CG1 ILE 30.928 69.097 1.00 12.97 **ATOM** Α **ATOM** 2893 CD1 ILE 384 30.093 67.865 32.909 1.00 9.57 C Α 30.376 72.898 2894 C ILE 384 33.028 1.00 19.30 C **ATOM** A 2895 ILE 384 29.333 73.198 33.605 0 1.00 18.50 0 ATOM A 2896 **CYS** 385 30.950 73.681 32.120 **ATOM** N 1.00 21.14 N Α 30. 349 2897 CYS 385 74.953 31.745 1.00 24.26 **ATOM** CA C A 1.00 23.62 **CYS** 385 29.932 74.887 30.284 2898 C C **ATOM** A **ATOM** 2899 0 **CYS** 385 30.654 74.334 29.464 1.00 23.61 Α 0 31.958 CYS 2900 CB385 31.344 76.106 1.00 27.85 **ATOM** C Α **CYS** 385 30.561 77.640 32.569 **ATOM** 2901 SG 1.00 37.75 S Α 28.760 **ATOM** 2902 **TYR** 386 75.440 29.973 1.00 23.26 N N Α 75.470 28.237 1.00 21.88 ATOM 2903 TYR 386 28.609 CA A C **ATOM** 2904 CB **TYR** 386 26.726 75.271 28.612 1.00 21.89 C A **ATOM** 2905 CG **TYR** 386 26.120 75.183 27. 228 1.00 23.48 C Α 1.00 23.55 CD1 TYR 24.912 75.825 26.930 **ATOM** 2906 386 C Α 24.323 C ATOM 2907 CE1 TYR 386 75.712 25.665 1.00 24.11 Α ATOM 2908 CD2 TYR 386 26.728 74.424 26.223 1.00 22.70 C Α **ATOM** 2909 CE2 TYR 386 26.144 74.299 24.956 1.00 23.04 C Α 2910 CZ 24.943 74.946 C **ATOM** TYR 386 24.686 1.00 24.39 Α 74.823 **ATOM** 2911 0HTYR 386 24.358 23.449 1.00 23.13 A 0 **ATOM** 2912 **TYR** 386 28.549 76.816 27.962 1.00 22.02 C C A **ATOM** 2913 0 **TYR** 386 28.187 77.868 1.00 22.52 28.493 0 Α **ATOM** PHE 387 29.201 76.775 2914 N 26.806 1.00 21.19 N Α 26.080 **ATOM** 2915 CA PHE 387 29.582 77.988 1.00 19.95 A C **ATOM** 2916 CB PHE 387 31.087 77.987 1.00 17.05 25. 781 C A **ATOM** 2917 CG PHE 387 31.970 78.222 26.973 1.00 14.01 Α C **ATOM** 2918 CD1 PHE 32.547 387 79.469 27.185 1.00 9.81 C A 32. 293 **ATOM** 2919 CD2 PHE 387 77.178 27.835 1.00 11.20 C CE1 PHE **ATOM** 2920 387 33.440 79.672 28. 231 1.00 9.80 C A 28.885 **ATOM** 2921 CE2 PHE 387 33.185 77.376 1.00 10.91 C Α **ATOM** 2922 CZ PHE 33.762 387 78.626 29.082 1.00 9.32 C Α **ATOM** 2923 C PHE 387 28.888 78. 153 24.727 1.00 20.94 Α C **ATOM** 2924 PHE 387 28.552 0 77.180 24.055 1.00 19.77 A 0 2925 **ATOM GLN** 388 28.706 1.00 21.79 N 79.406 24.332 Α N GLN **ATOM** 2926 CA 388 28.151 79.742 23.030 1.00 22.21 Α C **ATOM** 2927 GLN 388 27.024 23.177 CB 80.760 1.00 23.86 C Α **ATOM** 2928 25.745 CG GLN 388 80.343 22.477 1.00 29.81 Α C **ATOM** 2929 CD **GLN** 388 25.096 23.109 79.126 1.00 32.86 Α C **ATOM** 2930 OE1 GLN 388 24.357 78.391 22.452 1.00 34.98 Α 0 **ATOM** 2931 NE2 GLN 388 25.356 78.913 24.395 1.00 36.34 Α N **ATOM** 2932 C **GLN** 388 29.403 22.427 1.00 21.72 80.382 A C ATOM 2933 GLN 0 388 29.845 81.428 22.893 1.00 22.74 A 0 **ATOM** 79.745 21.415 2934 N ILE 389 29.982 1.00 20.66 A N **ATOM** 2935 CA ILE 389 31.231 80.215 20.821 1.00 21.00 A C 2936 ILE **ATOM** CB 389 79.617 19.422 31.466 1.00 20.76 Α C 2937 CG2 ILE **ATOM** 389 31.410 78.100 19.496 1.00 19.50 Α C 2938 CG1 ILE ATOM 389 18.429 C 30.448 80.165 1.00 19.48 2939 CD1 ILE **ATOM** 389 30.813 79.864 16.992 1.00 19.12 C

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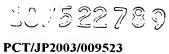
								(Continued)
					FIG. 4-61	-		,
A TOM	2040	C	IIE	389	31.483 81.713 20.73	35 1.00 23.29	Α	С
ATOM	2940	C	ILE	389	32.640 82.146 20.77		A	ŏ
ATOM	2941	0	ILE ASP	390	30. 423 82. 505 20. 61		A	Ň
ATOM	2942	N	ASP	390	30. 584 83. 953 20. 53		A	Č
ATOM	2943 2944	CA CB	ASP	390	29. 932 84. 508 19. 27		A	č
ATOM	294 <del>4</del> 2945	CG	ASP	390	28. 467 84. 215 19. 21		A	č
ATOM	2945 2946	OD1		390	27. 754 84. 955 18. 51		A	ŏ
ATOM	2940 2947	0D1		390	28. 029 83. 236 19. 89		Ä	ŏ
ATOM	2948	C	ASP	390	30. 005 84. 676 21. 73		Ä	č
ATOM	2949	Ö	ASP	390	29. 402 85. 735 21. 60		Ä	ŏ
ATOM ATOM	2949	N	LYS	391	30. 163 84. 078 22. 9		Ä	N
ATOM	2951	CA	LYS	391	29. 707 84. 679 24. 15		Ä	Ċ
ATOM	2952	CB	LYS	391	28. 348 84. 128 24. 50		A	Č
ATOM	2953	CG	LYS	391	27. 203 84. 790 23. 82		A	Č
ATOM	2954	CD	LYS	391	25. 867 84. 228 24. 25		A	Č
ATOM	2955	CE	LYS	391	24. 733 84. 772 23. 4		Ä	Ċ ·
ATOM	2956	NZ	LYS	391	23. 454 84. 073 23. 74		A	N
ATOM	2957	C	LYS	391	30. 772 84. 369 25. 18		Ä	Ċ
ATOM	2958	ŏ	LYS	391	31. 192 83. 223 25. 33		Ä	0
ATOM	2959	Ň	LYS	392	31. 219 85. 401 25. 88		A	N
ATOM	2960	CA	LYS	392	32. 281 85. 248 26. 8		Ā	C
ATOM	2961	CB	LYS	392	33.069 86.558 26.98		Ā	Č
ATOM	2962	CG	LYS	392	33.516 87.119 25.63		A	C
ATOM	2963	CD	LYS	392	34. 330 86. 098 24. 89		A	C
ATOM	2964	CE	LYS	392	34.643 86.588 23.4		A	C
ATOM	2965	NZ	LYS	392	35. 369 87. 872 23. 49		Α	N
ATOM	2966	C	LYS	392	31. 824 84. 797 28. 24		A	С
ATOM	2967	0	LYS	392	32. 637 84. 679 29. 10		Α	0
ATOM	2968	N	ASP	393	30. 531 84. 548 28. 49		Α	N
<b>ATOM</b>	2969	CA	ASP	393	30.015 84.098 29.69	90 1.00 33.64	Α	С
<b>ATOM</b>	2970	CB	ASP	393	29. 052 85. 134 30. 2	71 1.00 36.88	Α	С
<b>ATOM</b>	2971	CG	ASP	393	29. 734 86. 450 30. 56	67 1.00 41.66	Α	С
ATOM	2972	0D1	ASP	393	30. 607 86. 475 31. 4		Α	0
ATOM	2973	OD2	ASP	393	29. 409 87. 455 29. 89		Α	0
ATOM	2974	C	ASP	393	29. 309 82. 761 29. 5	46 1.00 32.46	Α	C
ATOM	2975	0	ASP	393	28. 294 82. 666 28. 8		Α	0
ATOM	2976	N	CYS	394	29. 841 81. 731 30. 19		Α	N
ATOM	2977	CA	CYS	394	29. 243 80. 410 30. 1		Α	С
ATOM	2978	C	CYS	394	28. 312 80. 116 31. 2		A	C
ATOM	2979	0	CYS	394	28. 262 80. 858 32. 2		A	0
ATOM	2980	CB	CYS	394	30. 336 79. 338 30. 03		A	C
ATOM	2981	SG	CYS	394	31.401 79.166 31.50		A	S
ATOM	2982	N	THR	395	27. 570 79. 023 31. 10		A	N .
ATOM	2983	CA	THR	395	26.645 78.608 32.20		A	C
ATOM	2984	CB	THR	395	25. 208 78. 512 31. 6		A	C
ATOM	2985	0G1		395	24. 709 79. 833 31. 40		A	0
ATOM	2986		THR	395	24. 289 77. 779 32. 65		A	C
ATOM	2987	C	THR	395	27. 048 77. 251 32. 7		A·	C
ATOM	2988	0	THR	395	27. 196 76. 280 32. 0	36 1.00 24.44	A	0

					FΙ	G. 4	- 62			(Continued)
ATOM ATOM	2989 2990		PHE PHE		27. 231 27. 594	77. 185 75. 924	34. 084	1.00 23.09 1.00 23.03	A	N C
ATOM	2991	CB	PHE		28. 138	76. 182		1.00 23.03	A A	C C
ATOM	2992	CG	PHE	396	29. 581	76. 617		1.00 23.20	Ä	č
ATOM	2993		1 PHE		30.604	75. 697	35. 876	1.00 22.48	Α	C
ATOM	2994		2 PHE		29. 924	77. 935	36. 415	1.00 20.97	Α	C
ATOM	2995		PHE		31.949	76.086	35. 908	1.00 20.26	A	C
ATOM ATOM	2996 2997	CZ	2 PHE PHE		31. 267	78. 331	36. 447	1.00 21.70	. A	C
ATOM	2998	C	PHE		32. 279 26. 373	77. 400 75. 008	36. 194 34. 764	1.00 20.27	A	C
ATOM	2999	ŏ	PHE		25. 311	75. 412	35. 218	1.00 20.96 1.00 20.96	A A	C 0
ATOM	3000	Ň	ILE		26. 523	73. 779	34. 279	1.00 20.30	A	N N
ATOM	3001	CA	ILE		25.412	72.842	34. 262	1.00 18.00	Ä	Č
ATOM	3002	CB	ILE		25. 266	72.165	32.879	1.00 16.55	A	č
ATOM	3003		2 ILE		25.350	73. 209	31.787	1.00 13.63	A	Č
ATOM	3004		ILE		26.366	71.130	32.669	1.00 16.02	Α	C
ATOM	3005		ILE		26. 180	70. 327	31. 402	1.00 17.85	Α	C
ATOM ATOM	3006 3007	C	ILE		25. 527	71.770	35. 338	1.00 19.16	A	C
ATOM	3008	O N	ILE THR		24. 787 26. 480	70. 787	35. 330	1.00 20.44	A	0
ATOM	3009	CA	THR		26. 681	71. 956 71. 051	36. 244 37. 367	1.00 18.55	A	N
ATOM	3010	CB	THR		27. 624	69. 858	37. 051	1.00 19.41 1.00 19.56	A A	C C
ATOM	3011		THR	398	28. 978	70. 321	36. 960	1.00 13.30	A	0
ATOM	3012		THR	398	27. 221	69. 178	35. 759	1.00 18.50	A	Č
ATOM	3013	C	THR	398	27. 343	71.899	38.424	1.00 20.24	Ä	č
ATOM	3014	0	THR	398	27.979	72.903	38.104	1.00 20.11	A	0
ATOM	3015	N	LYS	399	27. 185	71.511	39.681	1.00 22.48	Α	N
ATOM	3016	CA	LYS	399	27. 795	72. 258	40. 772	1.00 23.72	Α	C
ATOM ATOM	3017 3018	CB CG	LYS LYS	399 399	27.111	73.618	40. 941	1.00 24.42	A	C
ATOM	3019	CD	LYS	399 399	25. 689 25. 269	73. 583 74. 996	41.462	1.00 27.65	A	C
ATOM	3020	CE	LYS	399	23. 861	75. 054	41.856 42.414	1.00 30.77 1.00 31.89	A	C
ATOM	3021	NZ	LYS	399	22. 841	74. 747		1.00 31.39	A A	C N
ATOM	3022	C	LYS	399	27. 751	71.476	42.077	1.00 33.03	A	C
ATOM	3023	0	LYS	399	27. 125	70. 425	42. 154	1.00 21.96	A	Ö
ATOM	3024	N	GLY	400	28. 435	71.989	43.093	1.00 21.98	Ä	Ň
ATOM	3025	CA	GLY	400	28.463	71.319	44.378	1.00 22.66	Α	C
ATOM	3026	C	GLY	400	29. 891	71.115	44.839	1.00 24.94	Α	C
ATOM	3027	0	GLY	400	30. 831	71.449	44.118	1.00 26.10	A	0
ATOM ATOM	3028 3029	N CA	THR THR	401	30.064	70.566	46. 036	1.00 25.34	A	N
ATOM	3030	CB	THR	401 401	31.400 31.443	70. 335 70. 541	46.560	1.00 26.41	A	C
ATOM	3031		THR	401	30.615	69. 567	48. 095 48. 741	1.00 27.75 1.00 31.37	A	C
ATOM	3032		THR	401	30. 924	71. 927		1.00 31.37	A A	0 C
ATOM	3033	C	THR	401	31.923	68. 945		1.00 24.83	A	C
ATOM	3034	0	THR	401	32.027	68.049		1.00 26.74	Ä	Ö
ATOM	3035	N	TRP	402	32. 229	68. 790	44.915	1.00 22.03	Ä	N
ATOM	3036	CA	TRP	402	32. 781	67. 569	44.340	1.00 18.83	Α	С
ATOM	3037	CB	TRP	402	31.741	66.460	44. 268	1.00 16.39	Α	C

										(Continued)
					FI	G. 4	- 63			
ATOM ATOM	3038 3039	CD	TRP 2 TRP	402 402	30. 434 30. 037	66.886	43. 709 42. 332	1.00 17.90	A	C
ATOM	3040		2 TRP	402	28. 701	66.865 67.320	42. 332	1.00 19.16 1.00 20.21	A A	C C
ATOM	3041		TRP	402	30. 679	66. 505	41. 137	1.00 28.21	A	Č
ATOM	3042		TRP	402	29. 364	67. 345	44. 409	1.00 17.97	Ä	č
ATOM	3043		TRP	402	28. 318	67.605	43.562	1.00 20.57	A	Ň
ATOM	3044		2 TRP	402	27. 989	67.425	41.078	1.00 18.32	Ä	Ċ
ATOM	3045		3 TRP	402	29.972	66.608	39.943	1.00 19.71	Ä	Č
ATOM	3046	CH2	? TRP	402	28.637	67.064	39.924	1.00 18.98	A	Ċ
ATOM	3047	C	TRP	402	33. 208	67. 983	42.944	1.00 18.09	Α	C
ATOM	3048	0	TRP	402	32.956	69.117	42.540	1.00 18.12	Α	0
ATOM	3049	N	GLU	403	33. 831	67.089	42.191	1.00 17.78	Α	N
ATOM	3050	CA	GLU	403	34. 284	67. 484	40.866	1.00 19.48	Α	C
ATOM	3051	CB	GLU	403	35. 776	67.805	40.926	1.00 20.26	Α	C
ATOM	3052	CG	GLU	403	36. 122	68. 824	41.983	1.00 21.69	Α	C
ATOM	3053	CD	GLU	403	37. 433	69. 522	41.721	1.00 23.95	A	С
ATOM	3054		GLU	403	37. 506	70. 728	42.020	1.00 25.27	Α	0
ATOM	3055		GLU	403	38. 384	68. 880	41. 223	1.00 24.57	Α	0
ATOM	3056	C	GLU	403	34. 028	66.516	39. 716	1.00 19.74	Α	C
ATOM	3057	0	GLU	403	33. 891	65. 305	39. 916	1.00 20.05	A	0
ATOM	3058	N CA	VAL	404	33. 957	67. 073	38. 508	1.00 18.47	A	N
ATOM ATOM	3059 3060	CA CB	VAL	404	33. 760	66. 273	37. 305	1.00 17.63	A	C
ATOM	3061		VAL VAL	404 404	33. 070 32. 974	67.073	36. 165	1.00 14.78	A	C
ATOM	3062		VAL	404 404	31. 683	66. 210 67. 515	34. 914	1.00 11.14	A	C
ATOM	3063	C	VAL	404	35. 153	65. 875	36. 595 36. 836	1.00 12.13	A	C
ATOM	3064	ŏ	VAL	404	35. 986	66. 732	36. 567	1.00 18.38 1.00 20.01	A	C
ATOM	3065	Ň	ILE	405	35. 410	64. 579	36. 764	1.00 20.01	A	0 N
ATOM	3066	CA	ILE	405	36. 707	64. 088	36. 323	1.00 20.05	A	N
ATOM	3067	CB	ILE	405	36. 868	62. 593	36.653	1.00 20.03	A A	C C
ATOM	3068		ILE	405	38. 254	62. 123	36. 283	1.00 16.28	Ä	Č
<b>ATOM</b>	3069		ILE	405	36. 591	62. 364	38. 146	1.00 24.51	A	Č
ATOM	3070		ILE	405	37. 438	63. 218	39. 079	1.00 26.24	A	C
ATOM	3071	C	ILE	405		64.290	34.817	1.00 19.94	Ä	č
ATOM	3072	0	ILE	405		64.710	34. 345	1.00 20.67	A	ŏ
ATOM	3073	N	GLY	406	35.803	63.990	34.064	1.00 19.40	Ä	N
ATOM	3074	CA	GLY	406	35.869	64.171	32.627	1.00 16.85	Ä	Ċ
ATOM	3075	C	GLY	406		63.983	31.881	1.00 16.78	A	Č
ATOM	3076	0	GLY	406		63. 268	32.330	1.00 17.43	Α	0
ATOM	3077	N	ILE	407		64.652	30. 736	1.00 17.49	Α	N
ATOM	3078	CA	ILE	407		64. 569	29.852	1.00 16.98	Α	C
ATOM	3079	CB	ILE	407		65. 861	28. 998	1.00 16.67	Α	C
ATOM	3080	CG2		407		65. 671	27. 874	1.00 16.93	Α	C
ATOM	3081	CG1		407		67.036	29. 895	1.00 16.45	A	C
ATOM ATOM	3082	CD1		407		68. 357	29. 157	1.00 11.65	A	C
ATOM	3083 3084	C 0	ILE ILE	407 407		63. 392	28. 934	1.00 18.17	A	C
ATOM	3085	N	GLU	407		63. 421 62. 367	28. 212	1.00 18.89	A	0
ATOM	3086	CA	GLU	408		61. 176		1.00 20.84 1.00 22.31	A	N C
III OIII	0000	O. 1	250	100	00.000	01.110	40.144	1.00 44.91	Α	U

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ATOM 3087 CB GLU 408 32.691 59.922 28.944 1.00 21.64 A C ATOM 3088 CG GLU 408 33.457 59.860 30.254 1.00 23.48 A C ATOM 3089 CD GLU 408 34.963 59.947 30.048 1.00 26.15 A C ATOM 3090 0E1 GLU 408 35.519 59.081 29.337 1.00 28.40 A 0 ATOM 3091 0E2 GLU 408 35.594 60.877 30.596 1.00 25.87 A 0 ATOM 3092 C GLU 408 32.262 61.097 26.780 1.00 22.35 A C ATOM 3093 0 GLU 408 32.743 60.455 25.846 1.00 23.83 A 0 ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3098 0 ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3098 0 ALA 409 28.651 63.041 26.413 1.00 19.39 A 0 ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.614 66.778 23.617 1.00 20.83 A C						<b></b>		0.4			(Contin	ued)
ATOM 3088 CG GLU 408 33.457 59.860 30.254 1.00 23.48 A C ATOM 3089 CD GLU 408 34.963 59.947 30.048 1.00 26.15 A C ATOM 3090 0E1 GLU 408 35.519 59.081 29.337 1.00 28.40 A O ATOM 3091 0E2 GLU 408 35.594 60.877 30.596 1.00 25.87 A O ATOM 3092 C GLU 408 32.262 61.097 26.780 1.00 22.35 A C ATOM 3093 O GLU 408 32.743 60.455 25.846 1.00 23.83 A O ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C						FI	G. 4	- 64				
ATOM 3088 CG GLU 408 33.457 59.860 30.254 1.00 23.48 A C ATOM 3089 CD GLU 408 34.963 59.947 30.048 1.00 26.15 A C ATOM 3090 0E1 GLU 408 35.519 59.081 29.337 1.00 28.40 A O ATOM 3091 0E2 GLU 408 35.594 60.877 30.596 1.00 25.87 A O ATOM 3092 C GLU 408 32.262 61.097 26.780 1.00 22.35 A C ATOM 3093 O GLU 408 32.743 60.455 25.846 1.00 23.83 A O ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C	ATOM	3087	СВ	GLU	408	32. 691	59. 922	28. 944	1.00 21.64	Α	С	
ATOM 3089 CD GLU 408 34.963 59.947 30.048 1.00 26.15 A C ATOM 3090 0E1 GLU 408 35.519 59.081 29.337 1.00 28.40 A 0 ATOM 3091 0E2 GLU 408 35.594 60.877 30.596 1.00 25.87 A 0 ATOM 3092 C GLU 408 32.262 61.097 26.780 1.00 22.35 A C ATOM 3093 0 GLU 408 32.743 60.455 25.846 1.00 23.83 A 0 ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 0 ALA 409 28.651 63.041 26.413 1.00 19.39 A 0 ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C	ATOM	3088	CG		408	33. 457	59.860	30. 254	1.00 23.48	_		
ATOM 3091 OE2 GLU 408 35.594 60.877 30.596 1.00 25.87 A O ATOM 3092 C GLU 408 32.262 61.097 26.780 1.00 22.35 A C ATOM 3093 O GLU 408 32.743 60.455 25.846 1.00 23.83 A O ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C										Α		
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ATOM 3093 0 GLU 408 32.743 60.455 25.846 1.00 23.83 A 0 ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 0 ALA 409 28.651 63.041 26.413 1.00 19.39 A 0 ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3094 N ALA 409 31.100 61.729 26.671 1.00 22.21 A N ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3095 CA ALA 409 30.356 61.685 25.414 1.00 20.74 A C ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 0 ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3096 CB ALA 409 29.797 60.294 25.180 1.00 21.17 A C ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C						31.100	61.729					
ATOM 3097 C ALA 409 29.235 62.708 25.386 1.00 20.05 A C ATOM 3098 O ALA 409 28.651 63.041 26.413 1.00 19.39 A O ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3098 0 ALA 409 28.651 63.041 26.413 1.00 19.39 A 0 ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C											C	
ATOM 3099 N LEU 410 28.937 63.201 24.195 1.00 19.25 A N ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3100 CA LEU 410 27.911 64.207 24.038 1.00 19.28 A C ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3101 CB LEU 410 28.559 65.571 23.796 1.00 19.29 A C ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
ATOM 3102 CG LEU 410 27.634 66.778 23.617 1.00 20.83 A C												
											Č	
ATOM 3103 CD1 LEU 410 26.959 67.089 24.935 1.00 20.92 A C	ATOM	3103			410	26. 959		24. 935	1.00 20.92		č	
ATOM 3104 CD2 LEU 410 28.434 67.987 23.134 1.00 20.28 A C		3104										
ATOM 3105 C LEU 410 26.998 63.874 22.879 1.00 20.25 A C	ATOM	3105										
ATOM 3106 O LEU 410 27.453 63.649 21.758 1.00 20.84 A 0		3106	0		410	27. 453	63.649	21.758	1.00 20.84			
ATOM 3107 N THR 411 25.701 63.834 23.150 1.00 19.86 A N								23.150	1.00 19.86	Α		
ATOM 3108 CA THR 411 24.741 63.561 22.100 1.00 18.40 A C									1.00 18.40	Α	C	
ATOM 3109 CB THR 411 23.902 62.339 22.418 1.00 15.82 A C										Α	C	
ATOM 3110 OG1 THR 411 23.017 62.649 23.498 1.00 15.79 A 0												
ATOM 3111 CG2 THR 411 24.797 61.177 22.811 1.00 14.12 A C												
ATOM 3112 C THR 411 23.846 64.787 22.050 1.00 20.16 A C												
ATOM 3113 0 THR 411 23.971 65.684 22.882 1.00 21.79 A 0 ATOM 3114 N SER 412 22.952 64.836 21.074 1.00 20.25 A N												
AMONG CALL OF THE												
AMONE OLIVE OF ATT												
AMON 044 M 04 0 M 0												
ATOM 3117 OG SER 412 20.474 64.618 19.721 1.00 25.03 A O ATOM 3118 C SER 412 21.158 66.118 22.153 1.00 21.84 A C												
ATOM 3119 O SER 412 20.598 67.185 22.379 1.00 22.97 A O												
ATOM 3120 N ASP 413 21.015 65.054 22.934 1.00 22.56 A N										_	-	
ATOM 3121 CA ASP 413 20.138 65.104 24.097 1.00 24.36 A C										_		
ATOM 3122 CB ASP 413 19.036 64.047 23.975 1.00 26.84 A C											Č	
ATOM 3123 CG ASP 413 18.161 64.243 22.751 1.00 30.28 A C	ATOM	3123	CG	ASP	413					_	Č	
ATOM 3124 OD1 ASP 413 17.153 63.515 22.635 1.00 32.47 A 0					413	17. 153	63.515	22.635	1.00 32.47			
ATOM 3125 OD2 ASP 413 18.474 65.111 21.904 1.00 31.81 A O								21.904	1.00 31.81			
ATOM 3126 C ASP 413 20.822 64.918 25.442 1.00 24.37 A C										Α	C	
ATOM 3127 O ASP 413 20.306 65.363 26.470 1.00 25.08 A 0										Α		
ATOM 3128 N TYR 414 21.974 64.259 25.444 1.00 24.23 A N												
ATOM 3129 CA TYR 414 22.672 63.998 26.694 1.00 23.03 A C										_	C	
ATOM 3130 CB TYR 414 22.369 62.572 27.155 1.00 23.61 A C ATOM 3131 CG TYR 414 20.925 62.332 27.520 1.00 25.79 A C												
0400 OD4 mm												
ATOM 3133 CE1 TYR 414 19.071 62.621 29.052 1.00 26.99 A C ATOM 3134 CD2 TYR 414 20.074 61.629 26.666 1.00 24.67 A C												
ATOM 3135 CE2 TYR 414 18.740 61.424 26.993 1.00 25.53 A C												



					FΙ	G. 4	- 6 5			(Continued)
ATOM	3136	CZ	TYR	414	18. 246	61.923	28. 188	1.00 28.30	Α	C
ATOM	3137	OH	TYR	414	16. 925	61.731	28. 531	1.00 31.69	A	0
ATOM	3138	C	TYR	414	24. 180	64. 174	26.639	1.00 22.81	A	C
ATOM	3139	0	TYR	414	24. 811	64.040	25. 582	1.00 22.74	A	0
ATOM	3140	N	LEU	415	24. 741	64. 469	27. 809	1.00 20.51	A	N
ATOM	3141	CA	LEU	415	26. 174	64.630	27. 996	1.00 18.28	A	C
ATOM	3142	CB	LEU	415	26. 502	66.079	28. 358	1.00 16.58	A	C
ATOM	3143	CG	LEU	415	27. 945	66. 406	28. 745	1.00 14.79	A	C
ATOM	3144		LEU	415	28. 184	67. 892	28.606	1.00 13.01	A	C
ATOM	3145		LEU	415	28. 208	65. 943	30. 163	1.00 14.04	A	C
ATOM	3146	C	LEU	415	26. 518	63. 684	29.149	1.00 18.57	A	C
ATOM	3147	0	LEU	415	25. 926	63. 763	30. 230	1.00 18.31	A	0
ATOM	3148	N	TYR	416	27. 449	62. 769	28.909	1.00 19.11	A	N C
ATOM	3149	CA	TYR	416	27. 843	61.796	29. 924	1.00 19.69	A	C
MOTA	3150	CB	TYR	416	27. 963	60.407	29.309	1.00 18.66	A	C
ATOM	3151	CG	TYR	416	26. 698	59. 926 60. 438	28. 645	1.00 17.78	A	C
ATOM	3152	CD1		416	26. 297		27.410	1.00 16.67	A	C
ATOM	3153		TYR	416	25. 137	59. 971 58. 944	26. 786 29. 245	1.00 18.58 1.00 16.22	A	C
ATOM	3154	CD2	TYR TYR	416 416	25. 908 24. 754	58. 475	28. 636	1.00 16.22	A A	C C
ATOM	3155 3156	CZ	TYR	416	24. 734	58. 986	27. 406	1.00 10.55	- A	C
ATOM ATOM	3157	OH	TYR	416	23. 252	58. 489	26. 784	1.00 18.54	A	0
ATOM	3158	C	TYR	416	29. 167	62. 178	30. 540	1.00 19.33	A	C
ATOM	3159	Ö	TYR	416	30. 117	62. 499	29.822	1.00 20.71	A	0
ATOM	3160	N	TYR	417	29. 238	62. 138	31.866	1.00 19.27	A	N
ATOM	3161	CA	TYR	417	30. 472	62. 506	32.544	1.00 19.08	A	Ċ
ATOM	3162	CB	TYR	417	30. 408	63. 981	32.970	1.00 13.00	A	Č
ATOM	3163	CG	TYR	417	29. 383	64. 282	34.049	1.00 17.93	A	č
ATOM	3164	CD1	TYR	417	29. 721	64. 213	35. 399	1.00 15.25	A	č
ATOM	3165	CE1		417	28. 784	64. 476	36. 391	1.00 13.14	A	č
ATOM	3166		TYR	417	28. 071	64. 622	33. 718	1.00 17.72	A	č
ATOM	3167		TYR	417	27. 120	64. 885	34.710	1.00 15.27	A	č
ATOM	3168		TYR	417	27. 488			1.00 14.25	A	č
ATOM	3169	OH	TYR	417	26. 556	65.046	37.020	1.00 14.06	Ä	Ö
ATOM	3170	C	TYR	417	30. 768	61.615	33.747	1.00 18.77	Ä	Č
ATOM	3171	Ŏ	TYR	417	29. 918	60.853	34. 207	1.00 18.74	Ä	0
ATOM	3172	N	ILE	418	31.996	61.706	34.236	1.00 17.63	Ā	N
<b>ATOM</b>	3173	CA	ILE	418	32. 429	60.926	35.379	1.00 16.60	Α	С
<b>ATOM</b>	3174	CB	ILE	418	33. 626	60.019	35.015	1.00 15.54	Α	C
<b>ATOM</b>	3175	CG2	ILE	418	34. 482	59.737	36. 241	1.00 14.33	Α	С
ATOM	3176		ILE	418	33. 107	58.729	34.378	1.00 15.75	Α	С
ATOM	3177	CD1	ILE	418	34. 183	57.767	33.964	1.00 15.48	Α	C
ATOM	3178	C	ILE	418	32.827	61.909	36.453	1.00 18.54	Α	С
ATOM	3179	0	ILE	418	33. 535	62.875	36. 190	1.00 20.83	Α	0
ATOM	3180	N	SER	419	32. 356	61.671	37.664	1.00 19.59	Α	N
ATOM	3181	CA	SER	419	32. 670	62.556	38.764	1.00 20.34	A	C
ATOM	3182	CB	SER	419	31. 523	63. 526	38. 996	1.00 21.79	A	C
ATOM	3183	OG	SER	419	30. 415	62. 843	39. 562	1.00 24.33	A	0
ATOM	3184	С	SER	419	32. 875	61.732	40.013	1.00 20.37	A	С

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					(Continued)
				FIG. 4-66	(Continuou)
1001	0105	0 000	410	00 700 70 700 00 000 1 00 00 00	0
ATOM	3185	O SER	419	32. 783 60. 503 39. 988 1. 00 20. 32 A 33. 152 62. 427 41. 107 1. 00 19. 64 A	0 N
ATOM ATOM	3186 3187	N ASN CA ASN	420 420	33. 152 62. 427 41. 107 1. 00 19. 64 A 33. 357 61. 786 42. 387 1. 00 20. 07 A	N C
ATOM	3188	CB ASN	420	34. 773 62. 053 42. 863 1. 00 18. 49 A	č
ATOM	3189	CG ASN	420	35. 099 63. 518 42. 872 1. 00 20. 69 A	č
ATOM	3190	OD1 ASN	420	34. 210 64. 358 42. 741 1. 00 21. 49 A	ŏ
ATOM	3191	ND2 ASN	420	36. 376 63. 844 43. 034 1. 00 21. 39 A	N
ATOM	3192	C ASN	420	32.350 62.368 43.379 1.00 20.90 A	Ċ
ATOM	3193	0 ASN	420	32.677 62.610 44.535 1.00 21.17 A	0
ATOM	3194	N GLU	421	31. 127 62. 600 42. 914 1. 00 21. 68 A	N
ATOM	3195	CA GLU	421	30. 081 63. 160 43. 761 1. 00 24. 26 A	С
ATOM	3196	CB GLU	421	28. 935 63. 722 42. 901 1. 00 26. 18 A	C
ATOM	3197	CG GLU	421	27. 714 64. 214 43. 701 1. 00 25. 32 A	C
ATOM	3198	CD GLU	421	26. 604 64. 817 42. 824 1. 00 26. 09 A	C
ATOM	3199	OE1 GLU	421	25. 563 65. 237 43. 373 1. 00 24. 11 A	0
ATOM	3200	OE2 GLU	421	26. 762 64. 873 41. 588 1. 00 27. 22 A	0
ATOM	3201	C GLU	421	29. 512 62. 133 44. 729 1. 00 24. 93 A 29. 185 62. 457 45. 868 1. 00 27. 30 A	C
ATOM ATOM	3202 3203	0 GLU N TYR	421 422		0 N
ATOM	3203	CA TYR	422	29. 409 60. 892 44. 272 1. 00 23. 63 A 28. 837 59. 826 45. 075 1. 00 23. 67 A	N C
ATOM	3205	CR TYR	422	28. 942 58. 503 44. 311 1. 00 23. 61 A	Č
ATOM	3206	CG TYR	422	28. 015 57. 415 44. 813 1. 00 24. 39 A	č
ATOM	3207	CD1 TYR	422	26. 642 57. 637 44. 936 1. 00 23. 87 A	č
ATOM	3208	CE1 TYR	422	25. 781 56. 618 45. 347 1. 00 22. 11 A	č
ATOM	3209	CD2 TYR	422	28. 505 56. 147 45. 120 1. 00 24. 53 A	Č
ATOM	3210	CE2 TYR	422	27. 654 55. 124 45. 533 1. 00 23. 32 A	C
ATOM	3211	CZ TYR	422	26. 300 55. 367 45. 641 1. 00 23. 52 A	C
ATOM	3212	OH TYR	422	25. 471 54. 349 46. 031 1. 00 24. 33 A	0
ATOM	3213	C TYR	422	29. 399 59. 679 46. 493 1. 00 23. 57 A	C
ATOM	3214	0 TYR	422	30. 599 59. 478 46. 704 1. 00 23. 17 A	0
ATOM	3215	N LYS	423	28. 492 59. 784 47. 461 1. 00 23. 07 A	N
ATOM ATOM	$\frac{3216}{3217}$	CA LYS CB LYS	$\begin{array}{c} 423 \\ 423 \end{array}$	28. 813 59. 661 48. 878 1. 00 22. 04 A	C
ATOM	3218	CB LYS	423	29. 156 58. 205 49. 205 1. 00 24. 22 A 27. 967 57. 266 49. 009 1. 00 25. 11 A	C
ATOM	3219	CD LYS	423	00 000	C
ATOM	3220	CE LYS	423	28. 303 55. 809 49. 276 1. 00 26. 55 A 27. 079 54. 930 49. 002 1. 00 28. 11 A	C C
ATOM	3221	NZ LYS	423	27. 302 53. 498 49. 336 1. 00 27. 79 A	N
ATOM	3222	C LYS	423	29. 923 60. 583 49. 347 1. 00 21. 46 A	Č
ATOM	3223	0 LYS	423	30. 533 60. 340 50. 385 1. 00 20. 97 A	ŏ
ATOM	3224	N GLY	424	30. 167 61. 647 48. 583 1. 00 21. 39 A	N
ATOM	3225	CA GLY	424	31. 201 62. 608 48. 930 1. 00 21. 20 A	С
ATOM	3226	C GLY	424	32.606 62.034 48.961 1.00 21.98 A	С
ATOM	3227	0 GLY	424	33. 463 62. 534 49. 687 1. 00 22. 19 A	0
ATOM	3228	N MET	425	32. 848 60. 991 48. 173 1. 00 22. 44 A	N
ATOM	3229	CA MET	425 425	34. 161 60. 350 48. 134 1. 00 23. 29 A	C
ATOM	3230 3231	CB MET	425 425	34. 003 58. 826 48. 056 1. 00 24. 14 A	C
ATOM ATOM	3232	SD MET	425 425	33. 548 58. 187 49. 360 1. 00 25. 32 A 33. 092 56. 451 49. 179 1. 00 29. 39 A	C
ATOM	3233	CE MET	425	33. 092 56. 451 49. 179 1. 00 29. 39 A 34. 663 55. 611 49. 406 1. 00 27. 92 A	S C
111 014	0200		100	01.000 00.011 10.100 1.00 B(.3L N	V

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3234 3235 3236 3237 3238 3239 3240 3241 3242 3243	C O N CD CA CB CG C O N	MET PRO PRO PRO PRO PRO PRO PRO GLY	425 426 426 426 426 426 426 426 427	35. 042 34. 836 36. 045 36. 386 36. 951 37. 943 37. 138 37. 636 37. 920 37. 905	60. 827 60. 457 61. 661 62. 215 62. 172 63. 007 63. 461 61. 019 61. 107 59. 936	46. 986 45. 835 47. 292 48. 615 46. 262 47. 062 48. 245 45. 532 44. 343 46. 252	1. 00 22. 06 1. 00 22. 61 1. 00 21. 75 1. 00 21. 34 1. 00 20. 07 1. 00 20. 22 1. 00 19. 61 1. 00 23. 99 1. 00 19. 08	A A A A A A A	C O N C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3244 3245 3246 3247 3248 3249 3250 3251 3252	CA C O N CA C O N CA	GLY GLY GLY GLY GLY ARG ARG	427 427 428 428 428 428 428 429 429	38. 552 37. 601 37. 965 36. 378 35. 417 35. 208 35. 577 34. 619 34. 389	58. 789 57. 838 56. 706 58. 285 57. 446 57. 970 59. 108 57. 158 57. 559	45. 646 44. 941 44. 642 44. 684 43. 991 42. 583 42. 289 41. 712 40. 320	1. 00 18. 03 1. 00 18. 93 1. 00 21. 55 1. 00 18. 22 1. 00 17. 96 1. 00 18. 15 1. 00 19. 00 1. 00 16. 78 1. 00 17. 38	A A A A A A	C C O N C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3253 3254 3255 3256 3257 3258 3259 3260 3261	CB CCD NE CZ NH1 NH2 C	ARG ARG ARG ARG ARG ARG ARG ARG	429 429 429 429 429 429 429 429	35. 595 36. 577 37. 385 38. 359 39. 078 38. 927 39. 957 33. 134 32. 976	57. 167 58. 292 58. 737 59. 769 60. 445 60. 204 61. 356 56. 889 55. 675	39. 444 39. 108 40. 302 39. 956 40. 852 42. 146 40. 456 39. 756 39. 857	1. 00 19. 09 1. 00 20. 57 1. 00 22. 65 1. 00 25. 75 1. 00 26. 83 1. 00 26. 78 1. 00 26. 24 1. 00 15. 74 1. 00 12. 14	A A A A A A	C C C N C N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3262 3263 3264 3265 3266 3267 3268 3269 3270	N CA CB CG OD1 ND2	ASN ASN ASN ASN ASN ASN ASN LEU	430 430 430 430 430 430 430 430 431	32. 256 31. 027 29. 901 29. 947 29. 607 30. 381 30. 564 30. 849 29. 840	57. 679 57. 136 57. 216 56. 081 54. 938 56. 386 57. 808 58. 976 57. 053	39. 146 38. 586 39. 622 40. 620 40. 297 41. 840	1. 00 14. 98 1. 00 17. 41 1. 00 17. 29 1. 00 18. 53 1. 00 16. 68 1. 00 15. 65 1. 00 17. 98 1. 00 19. 64 1. 00 17. 00	A A A A A A A	N C C C O N C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3271 3272 3273 3274 3275 3276 3277 3278 3279 3280 3281	CA CB CG CD1 CD2 C O N CA CB CG	LEU LEU TYR TYR TYR TYR	431 431 431 431 431 431 432 432 432 432	29. 314 29. 122 28. 478 29. 340 28. 296 27. 978 27. 095 27. 840 26. 620 26. 848 27. 068	57. 576 56. 442 56. 867 57. 917 55. 645 58. 279 57. 750 59. 475 60. 248 61. 442 61. 070	35. 241 34. 231 32. 913 32. 230 32. 018 35. 491 36. 172 34. 933 35. 083 36. 014 37. 464	1. 00 17. 70 1. 00 15. 35 1. 00 15. 33 1. 00 13. 77 1. 00 17. 37 1. 00 19. 03 1. 00 17. 62 1. 00 20. 33 1. 00 21. 23 1. 00 22. 85 1. 00 25. 34	A A A A A A A A A	C C C C C O N C C C
ATOM	3281	CG CD1	TYR	432 432	27. 068 28. 320	61.070 60.646	37. 464 37. 921	1.00 25.34 1.00 24.87	A A	C

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					F I	G. 4	- 68			
ATOM	3283	CE!	TYR	432	28. 519	60. 305	39. 267	1.00 24.97	Α	С
ATOM	3284		TYR		26. 019			1.00 24.85	A	č
ATOM	3285		TYR		26. 205			1.00 25.31	A	č
ATOM	3286	CZ	TYR		27. 454			1.00 25.88	Ä	č
ATOM	3287	OH	TYR		27. 625			1.00 25.59	A	Ö
ATOM	3288	С	TYR		26. 102			1.00 21.26	A	Č
ATOM	3289	0	TYR		26.860		32.770	1.00 21.07	Α	0
ATOM	3290	N	LYS	433	24.802		33.695	1.00 20.78	· A	N
ATOM	3291	CA	LYS		24. 133	61.505	32.496	1.00 20.98	Α	С
ATOM	3292	CB	LYS		23. 290	60.386	31.876	1.00 21.14	Α	C
ATOM	3293	CG	LYS		22.564		30.618	1.00 25.64	Α	C
ATOM	3294	CD	LYS		21.843			1.00 25.30	Α	C
ATOM	3295	CE	LYS		20. 643			1.00 25.25	Α	C
ATOM	3296	NZ	LYS		19. 801			1.00 27.99	Α	N
ATOM	3297	C	LYS		23. 228			1.00 20.46	Α	С
ATOM	3298	0	LYS		22. 367			1.00 21.41	Α	0
ATOM	3299	N	ILE		23. 427			1.00 20.15	A	N
ATOM	3300	CA	ILE		22. 591			1.00 21.18	A	C
ATOM	3301	CB	ILE	434	23. 427			1.00 21.51	A	C
ATOM ATOM	3302		ILE	434	24. 412			1.00 22.39	A	C
ATOM	3303 3304		ILE ILE	434 434	22. 491 23. 171	67. 404		1.00 22.04	A	C
ATOM	3305	CDI	ILE	434 434	21. 782		33. 699 31. 174	1.00 23.38	A	C
ATOM	3306	0	ILE	434	22. 274			1.00 20.81	A	C
ATOM	3307	N	GLN	435	20. 538		30. 056 31. 372	1.00 21.15 1.00 21.40	A	0
ATOM	3308	CA	GLN	435	19.666	66.034	30. 248	1.00 21.40	A	N C
ATOM	3309	CB	GLN	435	18. 202	65. 851	30. 646	1.00 26.08	A A	C
ATOM	3310	CG	GLN	435	17. 227	66. 030	29. 496	1.00 20.08	A	C
ATOM	3311	CD	GLN	435	15. 802	65.806	29. 929	1.00 23.33	A	Č
ATOM	3312		GLN	435	15. 446	64. 720	30. 372	1.00 34.41	A	Ö
<b>ATOM</b>	3313		GLN	435	14. 978	66.839	29. 819	1.00 34.05	A	N
ATOM	3314	C	GLN	435	19.891	67. 450	29. 743	1.00 22.81	Ä	C
ATOM	3315	0	GLN	435	19.600	68. 419	30. 434	1.00 22.20	Ä	ŏ
ATOM	3316	N	LEU	436	20. 401	67.564	28. 524	1.00 23.57	A	Ň
ATOM	3317	CA	LEU	436	20.679	68.865	27.951	1.00 24.55	Ä	Ċ
ATOM	3318	CB	LEU	436	21.152	68.714	26.508	1.00 21.18	Α	Ċ
ATOM	3319	CG	LEU	436	22. 456	67. 939	26. 332	1.00 21.36	Α	С
ATOM	3320		LEU	436	22. 938	68. 116	24.910	1.00 20.02	Α	C
ATOM	3321		LEU	436	23. 510	68. 437	27. 317	1.00 19.70	Α	С
ATOM	3322	C	LEU	436	19. 491	69.812	28.020	1.00 26.85	Α	C
ATOM	3323	0	LEU	436	19.672	71.016	28. 168	1.00 28.66	Α	0
ATOM	3324	N	SER	437	18. 280	69. 268	27. 927	1.00 30.22	A	N
ATOM	3325	CA	SER	437	17.059	70.075	27. 977	1.00 32.38	A	C
ATOM ATOM	$\frac{3326}{3327}$	CB	SER SER	437 437	15. 925	69. 340	27. 268	1.00 32.98	A	C
ATOM	3328	OG C	SER	437 437	16. 241	69. 151	25. 901	1.00 39.22	A	0
ATOM	3329	0	SER	437	16.610 15.805	70. 437 71. 352	29. 394 29. 577	1.00 33.81	A	C
ATOM	3330	N	ASP	438	17. 124		30. 387	1.00 32.20 1.00 35.36	A	0
ATOM	3331	CA	ASP	438	16.772	69. 955	30. 387	1.00 35.30	A A	N C
		٠.٠				55.500	01. 101	1.00 00.00	n	U

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3335 OD 3336 C 3337 O 3338 N 3339 CA 3340 CB 3341 CG 3342 CD 3343 CE 3344 CD 3345 CE 3346 CZ 3347 OH 3348 C 3349 O 3350 N 3351 CA 3352 CB 3353 OG 3354 CG 3355 C 3356 O 3357 N 3358 CA 3359 CB 3360 CG 3361 CD 3362 CE 3363 NZ 3364 C 3365 O 3367 CA	ASP ASP ASP ASP TYR	438 438 438 438 438 439 439 439 439 439 439 439 439 439 439	15. 468 14. 996 15. 820 13. 796 17. 904 18. 019 18. 723 19. 862 20. 740 21. 262 21. 565 22. 071 21. 480 21. 987 22. 281 22. 803 19. 543 20. 435 18. 285 17. 917 16. 561 15. 507 16. 559 17. 794 17. 684 17. 703 16. 871 15. 369 14. 848 13. 447 12. 953 19. 089 19. 668 19. 618 20. 922	69. 226 69. 498 69. 415 69. 785 69. 470 68. 274 70. 105 71. 343 71. 886 71. 028 71. 516 73. 253 73. 749 72. 875 73. 350 69. 538 69. 045 69. 612 69. 076 69. 624 69. 114 71. 144 67. 572 66. 829 67. 141 65. 735 65. 573 65. 490 66. 671 66. 392 67. 501 65. 119 65. 159 64. 564 63. 929	32. 123 33. 543 34. 480 33. 725 32. 700 32. 993 33. 158 34. 013 34. 175 32. 867 31. 810 30. 611 32. 691 31. 496 30. 462 29. 284 35. 390 36. 076 35. 806 37. 115 37. 609 36. 780 37. 571 36. 953 37. 929 35. 697 35. 362 34. 088 34. 331 35. 122 35. 649 36. 517 36. 263 36. 243	1. 00 38. 49 1. 00 41. 58 1. 00 43. 35 1. 00 43. 71 1. 00 35. 28 1. 00 33. 70 1. 00 34. 27 1. 00 30. 75 1. 00 30. 75 1. 00 30. 00 1. 00 28. 65 1. 00 28. 95 1. 00 27. 72 1. 00 28. 72 1. 00 33. 65 1. 00 33. 49 1. 00 34. 13 1. 00 34. 14 1. 00 33. 49 1. 00 33. 49 1. 00 32. 29 1. 00 30. 29 1. 00 30. 29 1. 00 30. 29 1. 00 30. 32 1. 00 35. 16 1. 00 32. 21 1. 00 30. 32 1. 00 33. 16 1. 00 36. 13 1. 00 39. 11 1. 00 41. 94 1. 00 44. 46 1. 00 28. 77 1. 00 28. 32 1. 00 25. 14 1. 00 24. 37	A A A A A A A A A A A A A A A A A A A	CCOOCONCCCCCCCCCOCONCCCONCCCONCCONCC
ATOM ATOM ATOM	3369 CG1 3370 CG2 3371 C	VAL VAL	442 442 442 442	21. 960 23. 266 22. 216 20. 786	64. 717 63. 936 66. 084 62. 525	37. 091 37. 178 36. 469 36. 807	1. 00 24. 82 1. 00 22. 99 1. 00 23. 65 1. 00 24. 10	A A A	C C C
ATOM ATOM ATOM ATOM ATOM ATOM		THR	442 443 443 443 443 443	20. 327 21. 189 21. 109 20. 352 19. 017 20. 301	62. 341 61. 539 60. 149 59. 306 59. 802 57. 862	35.800	1. 00 22. 60 1. 00 23. 16 1. 00 22. 78 1. 00 23. 02 1. 00 27. 68 1. 00 22. 12	A A A A A	0 N C C O C
ATOM ATOM ATOM	3378 C 3379 O 3380 N	THR THR CYS	443 443 444	22. 493 23. 367 22. 701	59. 548 59. 792 58. 761	36. 551 35. 721 37. 596	1.00 23.54 1.00 23.36 1.00 23.18	A A A	C O N

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					FΙ	G. 4	- 70			(Communa)
								1 00 04 10		
ATOM	3381	CA	CYS	444	23. 981	58. 104	37. 747	1.00 24.13	A	C
ATOM	3382	C	CYS	444	23. 758	56.712	37. 157	1.00 22.91	A	C
ATOM	3383	0	CYS	444	22. 855	55. 990	37. 573	1.00 21.72	A	0
ATOM	3384	CB	CYS	444	24. 396	58.018	39. 219	1.00 25.50	A	C
ATOM	3385	SG	CYS	444	26. 053	57. 282	39. 443	1.00 30.81	A	S
ATOM	3386	N	LEU	445	24. 573	56. 348	36. 175	1.00 22.64	A	N C
ATOM	3387	CA	LEU	445	24. 446	55.053	35. 513	1.00 22.51	A	C
ATOM	3388	CB	LEU	445	24. 799	55. 211	34. 035	1.00 19.29	· A	C C C C
ATOM	3389	CG	LEU	445	24. 049	56. 349	33. 341	1.00 19.36	A	C
ATOM	3390		LEU	445	24. 588	56. 552	31. 934	1.00 16.01	A	C
ATOM	3391		LEU	445	22. 559	56. 034	33. 319	1.00 15.72	A	C
ATOM	3392	C	LEU	445	25. 308		36. 118	1.00 23.32	A	C
ATOM	3393	0	LEU	445	25. 203		35. 718	1.00 24.58	A	0
ATOM	3394	N	SER	446	26. 148		37. 087	1.00 23.95	A	N
ATOM	3395	CA	SER	446	27. 028		37. 660	1.00 23.89	A	C
ATOM	3396	CB	SER	446	28. 469		37. 222	1.00 21.87	A	C
ATOM	3397	0G	SER	446	28.882		37. 648	1.00 20.09	A	0
ATOM	3398	C	SER	446	26. 969		39. 175	1.00 23.77	A	C
ATOM	3399	0	SER	446	27. 361	52. 119	39. 720	1.00 24.69	A	0 N
ATOM	3400	N	CYS	447	26. 480	54. 184	39.845	1.00 24.32	A	N C
ATOM	3401	CA	CYS	447	26. 382	54. 207	41.309	1.00 26.45	A	C
ATOM	3402	C	CYS	447	25. 836	52.946	41.997	1.00 25.99	A	C
ATOM	3403	0	CYS	447	26. 441	52. 425	42. 937 41. 763	1.00 24.44 1.00 27.33	A	0 C
ATOM	3404	CB	CYS	447	25. 518	55.396		1.00 27.33	A A	S
ATOM	3405	SG	CYS	447	26. 225	57. 049 52. 456	41.461 41.528	1.00 34.73	A	N N
ATOM	3406	N	GLU	448	24. 696	51.317	42. 167	1.00 23.30	A	
ATOM	3407	CA	GLU	448	24. 056 22. 581	51. 637	42. 107	1.00 24.38	A	C
ATOM	3408	CB	GLU	448	22. 332		42. 721	1.00 23.47	A	C C C
ATOM	3409	CC	GLU	448	22. 848		44. 108	1.00 27.44	A	C
ATOM	3410	CD	GLU GLU	448 448	22. 617		44. 559	1.00 27.44	A	ő
ATOM	3411		GLU	448	23. 478		44. 751	1.00 28.81	A	0
ATOM	3412	C		448	24. 201		41.537	1.00 23.54	A	Č
ATOM ATOM	3413 3414	0	GLU	448	23. 722		42. 104	1.00 22.25	A	ŏ
ATOM	3415	N	LEU	449	24. 844		40. 377	1.00 23.78	Ä	Ň
ATOM	3416	CA	LEU	449	25. 024		39. 717	1.00 23.34	Ä	Ċ
ATOM	3417	CB	LEU	449	25. 988		38. 548	1.00 20.76	Ä	č
ATOM	3418		LEU	449	25.680		37. 472	1.00 21.20	A	C C C
ATOM	3419		LEU	449	26.872		36. 543	1.00 20.05	A	Č
ATOM	3420		LEU	449	24. 424		36. 711	1.00 17.29	Ä	č
ATOM	3421	C	LEU	449	25. 551		40.654	1.00 24.61	A	Č
ATOM	3422	ŏ	LEU	449	25. 157		40. 549	1.00 26.01	Ā	Ö
ATOM	3423	N	ASN	450	26. 445		41.562	1.00 25.89	A	N
ATOM	3424	CA	ASN	450	27. 040		42.512	1.00 27.02	A	Ċ
ATOM	3425	CB	ASN	450	27. 939		41.754	1.00 27.92	A	C
ATOM	3426	CG	ASN	450	28. 296		42.572	1.00 31.61	Α	C
ATOM	3427		ASN	450	28. 521		43. 783	1.00 34.65	Α	0
ATOM	3428		ASN	450	28. 363	43.541	41.912	1.00 31.27	Α	N
ATOM	3429	С	ASN	450	27.877	47. 731	43. 488	1.00 26.54	Α	С

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ATOM	3430	0	ASN	450	29. 099		43. 523	1.00 26.25	A	0
ATOM	3431	N	PRO		27. 210		44. 303	1.00 27.04	A	N
ATOM	3432	CD	PRO	451	25. 762		44. 535	1.00 27.72	A	Č
ATOM	3433	CA	PRO	451	27. 796		45. 296	1.00 27.49	A	č
ATOM	3434	CB	PRO	451	26. 579		46. 103	1.00 27.43	A	Č
ATOM	3435	CG	PRO	45 Í	25. 638		45. 989	1.00 25.73	A	č
ATOM	3436	C	PRO	451	28. 938		46. 187	1.00 28.75	A	Č
ATOM	3437	Õ	PRO	451	29. 877		46. 433	1.00 20.73	A	0
ATOM	3438	N	GLU	452	28. 873		46. 666	1.00 30.09	A	N N
ATOM	3439	CA	GLU	452	29. 918		47. 545	1.00 29.34		C
ATOM	3440	CB	GLU	452 452	29. 453		48. 232	1.00 30.30	A	
ATOM	3441	CG	GLU	452	28. 085		48. 890		A	C
ATOM	3442	CD	GLU	452 452	27.817			1.00 39.92	A	C
ATOM	3443	0E1	GLU	452 452	28. 084		49. 813 49. 402	1.00 45.87	A	C
ATOM			GLU					1.00 47.97	A	0
	3444			452	27. 336		50. 948	1.00 47.68	A	0
ATOM	3445	C	GLU	452	31. 221		46.816	1.00 29.63	A	C
ATOM	3446	0 N	GLU	452	32. 308		47. 344	1.00 30.27	A	0
ATOM	3447	N	ARG	453	31.099		45. 600	1.00 27.01	Α.	N
ATOM	3448	CA	ARG	453	32. 244		44. 783	1.00 24.90	A	C
ATOM	3449	CB	ARG	453	31.950		44. 085	1.00 23.08	A	C
ATOM	3450	CG	ARG	453	32. 952		43. 018	1. 00 22. 92	A	C
ATOM	3451	CD	ARG	453	32.602	42.995	42. 381	1.00 20.49	A	C
ATOM	3452	NE	ARG	453	33.504		41. 278	1.00 18.31	A	N
ATOM	3453	CZ	ARG	453	33. 439	41.595	40. 531	1.00 18.93	A	C
ATOM	3454	NH1	ARG	453	32.510	40.679	40. 763	1.00 19.77	A	N
ATOM	3455			453	34. 302	41.425	39. 539	1.00 18.87	A	N
ATOM	3456	C	ARG	453	32.695	47.071	43. 738	1.00 25.72	A	C
ATOM	3457	0	ARG	453	33. 809	46. 962	43. 222	1.00 24.32	A	0
ATOM	3458	N	CYS	454	31.857	48.054	43. 420	1.00 25.94	A	N
ATOM	3459	CA	CYS	454	32. 233	49.012	42. 385	1.00 25.49	A	C
ATOM	3460	C	CYS	454	32. 038	50. 473	42.699	1.00 24.24	Α	С
ATOM	3461	0	CYS	454	30.922	50.970	42.688	1.00 26.79	Α	0
ATOM	3462	CB	CYS	454	31.503	48.664	41.096	1.00 26.13	Α	С
ATOM	3463	SG	CYS	454	32. 156	47.128	40. 401	1.00 30.12	Α	S
ATOM	3464	N	GLN	455	33. 143	51.165	42.942	1.00 22.97	Α	N
ATOM	3465	CA	GLN	455	33. 105	52.576	43. 276	1.00 23.69	Α	С
ATOM	3466	CB	GLN	455	33. 536	52.761	44. 736	1.00 23.41	Α	С
ATOM	3467	CG	GLN	455	32.564		45.761	1.00 24.96	Α	C
ATOM	3468	CD	GLN	455	33. 177	52.065	47. 150	1.00 29.34	Α	C
ATOM	3469	0E1		455	33. 981		47. 574	1.00 30.98	Α	0
ATOM	3470	NE2		455	32. 790		47.872	1.00 28.59	Α	N
ATOM	3471	C	GLN	455	33.992		42.360	1.00 24.57	Α	C
ATOM	3472	0	GLN	455	33.837		42. 294	1.00 27.40	Α	0
ATOM	3473	N	TYR	456	34. 919		41.654	1.00 22.57	Α	N
ATOM	3474	CA	TYR	456	35.821		40.763	1.00 21.75	Α	С
ATOM	3475	CB	TYR	456	37. 270	53.187	41.124	1.00 20.47	Α	С
ATOM	3476	CG	TYR	456	38. 267		40.817	1.00 21.27	Α	С
ATOM	3477	CD1		456	38. 659	55.193	41.808	1.00 20.27	Α	С
ATOM	3478	CE1	TYR	456	39.618	56.165	41.548	1.00 18.67	Α	C

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					FIG. 4-72	(Continued)
ATOM	3479		2 TYR	456	38. 858 54. 385 39. 552 1. 00 19. 29 A	C
ATOM	3480		2 TYR	456	39. 812 55. 353 39. 284 1. 00 16. 18 A	C
ATOM	3481		TYR	456	40. 190 56. 236 40. 283 1. 00 18. 92 A	C
ATOM	3482	OH	TYR	456	41. 151 57. 183 40. 023 1. 00 19. 64 A 35. 536 53. 061 39. 335 1. 00 21. 96 A	0
ATOM	3483	C	TYR	456		C
ATOM	3484	0	TYR	456	35. 944 51. 972 38. 931 1. 00 22. 39 A 34. 846 53. 899 38. 567 1. 00 22. 09 A	0
ATOM	3485	N	TYR	457		N .
ATOM	3486	CA	TYR	457	34. 499 53. 540 37. 196 1. 00 20. 82 A	C
ATOM	3487	CB	TYR	457	33. 001 53. 717 36. 956 1. 00 17. 91 A	
ATOM ATOM	3488 3489		TYR TYR	457 457	32. 147 52. 613 37. 512 1. 00 15. 58 A 31. 644 52. 674 38. 811 1. 00 13. 21 A	C C C
ATOM ATOM	3490 3491	CD2	TYR TYR	457 457	30. 830 51. 668 39. 311 1. 00 12. 43 A 31. 819 51. 512 36. 727 1. 00 16. 86 A	C
ATOM ATOM ATOM	3492 3493 3494	CE Z CZ OH	YR TYR TYR	457 457 457	31. 008 50. 497 37. 219 1. 00 15. 29 A 30. 518 50. 582 38. 507 1. 00 14. 49 A 29. 728 49. 568 38. 985 1. 00 15. 62 A	C C
ATOM ATOM	3495 3496	C 0	TYR TYR	457 457	29. 728 49. 568 38. 985 1. 00 15. 62 A 35. 232 54. 240 36. 066 1. 00 21. 27 A 35. 842 55. 293 36. 227 1. 00 23. 18 A	0 C 0
ATOM	3497	N	SER	458	35. 132 53. 622 34. 901 1. 00 21. 68 A 35. 739 54. 108 33. 683 1. 00 21. 74 A	N
ATOM	3498	CA	SER	458		C
ATOM	3499	CB	SER	458	37. 083 53. 429 33. 474 1. 00 23. 93 A 37. 510 53. 569 32. 141 1. 00 29. 63 A	C
ATOM	3500	OG	SER	458		0
ATOM ATOM ATOM	3501 3502 3503	C O N	SER SER VAL	458 458 459	34. 751 53. 664 32. 621 1. 00 21. 73 A 34. 072 52. 652 32. 804 1. 00 20. 08 A	C 0
ATOM	3504	CA	VAL	459	34.665 54.405 31.520 1.00 20.58 A 33.722 54.061 30.468 1.00 19.99 A 32.457 54.949 30.568 1.00 19.45 A	N
ATOM	3505	CB	VAL	459		C
ATOM ATOM	3506 3507	CG1 CG2	VAL	459 459	32. 457 54. 949 30. 568 1. 00 19. 45 A 32. 816 56. 392 30. 308 1. 00 19. 10 A 31. 397 54. 475 29. 595 1. 00 20. 30 A	C C C
ATOM	3508	C	VAL	459	34. 309 54. 161 29. 059 1. 00 19. 99 A 35. 314 54. 835 28. 831 1. 00 21. 13 A	C
ATOM	3509	0	VAL	459		O
ATOM	3510	N	SER	460	33. 667 53. 472 28. 122 1. 00 18. 73 A 34. 083 53. 456 26. 728 1. 00 16. 25 A	N
ATOM	3511	CA	SER	460		C
ATOM ATOM ATOM	3512 3513 3514	CB OG C	SER SER SER	460 460 460	34. 970 52. 230 26. 476 1. 00 16. 33 A 35. 476 52. 194 25. 151 1. 00 15. 85 A 32. 809 53. 377 25. 883 1. 00 15. 70 A	C 0
ATOM ATOM	3515 3516	0 N	SER PHE	460 461	32. 809 53. 377 25. 883 1. 00 15. 70 A 32. 156 52. 342 25. 841 1. 00 14. 81 A 32. 450 54. 475 25. 226 1. 00 16. 00 A	C O N
ATOM	3517	CA	PHE	461	31. 245 54. 512 24. 398 1. 00 16. 27 A 30. 636 55. 921 24. 367 1. 00 15. 50 A	C
ATOM	3518	CB	PHE	461		C
ATOM ATOM ATOM	3519 3520 3521		PHE PHE PHE	461 461	30. 001 56. 351 25. 660 1. 00 15. 11 A 30. 779 56. 764 26. 735 1. 00 14. 16 A	C C
ATOM ATOM	3522 3523	CE1	PHE PHE	461 461 461	28. 617 56. 340 25. 804 1. 00 14. 86 A 30. 190 57. 158 27. 931 1. 00 12. 94 A 28. 021 56. 733 26. 996 1. 00 12. 76 A	C C C
ATOM	3524	CZ	PHE	461	28. 811 57. 142 28. 061 1. 00 11. 01 A	C
ATOM	3525	C	PHE	461	31. 551 54. 102 22. 971 1. 00 17. 94 A	C
ATOM	3526	O	PHE	461	32. 686 54. 234 22. 514 1. 00 17. 07 A 30. 532 53. 612 22. 269 1. 00 19. 22 A	O
ATOM	3527	N	SER	462		N

					ान	G. 4	- 73			(Continued)
A (TO) (	0500	04	arn	400				1 00 99 70		C
ATOM	3528	CA	SER	462	30. 694	53. 212	20.877	1.00 23.70	A	C
ATOM	3529	CB	SER	462	29. 494	52. 381	20. 399	1.00 23.50	A	C
ATOM	3530	OG	SER	462	28. 308	53. 145	20. 397	1.00 24.06	A	0
ATOM	3531	C	SER	462	30. 804	54. 496	20.058	1.00 24.95	A	C
ATOM	3532	0	SER	462	30. 572	55. 581	20. 577	1.00 25.95	A	0
ATOM	3533	N	LYS	463	31.153	54. 373	18. 784	1.00 27.50	A	N
ATOM	3534	CA	LYS	463	31. 323	55. 536	17. 920	1.00 31.80	A	C .
ATOM	3535	CB	LYS	463	31. 587	55. 084	16.484	1.00 33.43	A	C
ATOM	3536	CG	LYS	463	33. 047	55. 199	16.075	1.00 35.54	A	C
ATOM	3537	CD	LYS	463	33. 972	54. 435	17.007	1.00 36.78	A	C
ATOM	3538	CE	LYS	463	35. 433	54. 724	16. 673	1.00 39.20	A	C
ATOM	3539	NZ	LYS	463	36. 384	54.098	17. 641	1.00 40.26	A	N
ATOM	3540	C	LYS	463	30. 226	56. 602	17. 934	1.00 33.39	A	C
ATOM	3541	0	LYS	463	30. 484	57. 745	17. 561	1.00 36.36	A	0
ATOM	3542	N	GLU	464	29. 015	56. 254	18. 354	1. 00 33. 23	A	N
ATOM	3543	CA	GLU	464	27. 945	57. 247	18. 410	1.00 34.54	A	C
ATOM	3544	CB	GLU	464	26. 960	57. 058	17. 256	1.00 39.82	A	C
ATOM	3545	CG	GLU	464	27. 528	57. 366	15.882	1.00 44.96	A	C
ATOM	3546	CD	GLU	464	26. 578	56.961	14.772	1.00 48.72	A	C
ATOM	3547		GLU	464	25. 439	57. 480	14. 752	1.00 50.39	A	0
ATOM	3548		GLU	464	26.967	56. 120	13. 926	1.00 50.59	A	0
ATOM	3549	C	GLU	464	27.186	57. 202	19.729	1.00 32.77	A	C
ATOM	3550	0	GLU	464	26.047	57.659	19.814	1.00 32.03	A	0
ATOM	3551	N	ALA	465	27. 823	56.636	20. 748	1.00 31.17	A	N
ATOM	3552	CA	ALA	465	27. 241	56. 546	22. 081	1.00 29.63	A	C
ATOM	3553	CB	ALA	465	26.889	57. 935	22.577	1.00 28.36	A	C
ATOM	3554	C	ALA	465	26.015	55.645	22. 164	1.00 29.47	A	C
ATOM	3555	O N	ALA	465	25. 176	55.824	23.042	1.00 28.66	A	0
ATOM	3556		LYS LYS	466	25. 905	54. 678	21. 259	1.00 28.89	A	N
ATOM	3557	CA		466	24. 763	53. 772 53. 122	21. 274	1.00 28.97	A	C
ATOM ATOM	3558	CB	LYS	466	24. 585		19.899	1.00 30.98	A	C
ATOM	3559 3560	CG CD	LYS	466	23. 208	52.509	19.649	1.00 31.77	A	C
ATOM	3561	CE	LYS LYS	466 466	23. 045	52. 179 51. 757	18. 171 17. 814	1.00 34.52	A	C
ATOM	3562	NZ	LYS	466	21. 632 21. 273	50. 441		1.00 35.82 1.00 38.42	A	C
ATOM	3563	C	LYS	466	24. 987	52. 704	18. 404 22. 339	1.00 38.42	A	N
ATOM	3564	Õ	LYS	466	24. 961	52. 126	22. 869	1.00 28.20	A	C
ATOM	3565	N	TYR	467	26. 252	52. 126	22.646		A	0
ATOM	3566	CA	TYR	467	26. 599	51.458	23. 654	1.00 26.93 1.00 26.21	A	N
ATOM	3567	CB	TYR	467	26. 955	50.119	23. 003	1.00 20.21	A	C
ATOM	3568	CG	TYR	467		49. 502	23. 003	1.00 27.94	A	C
ATOM	3569		TYR	467		49. 917	20. 903		A	C
ATOM	3570		TYR	467		49. 373	20. 903	1.00 29.93 1.00 31.13	A	C
ATOM	3571		TYR	467		48. 522	20. 164 22. 768	1.00 31.13	A A	C C
ATOM	3572	CE2		467		47.975	22. 768	1.00 29.73	A	C
ATOM	3573	CZ	TYR	467		48. 405	20.770	1.00 30.29	A	C
ATOM	3574	OH	TYR	467		47. 890	20. 779	1.00 30.91	A	0
ATOM	3575	C	TYR	467		51.949	24. 470	1.00 32.01	A	Č
ATOM	3576	ŏ	TYR	467	28. 491	52.852	24.064	1.00 24.63	A	ő
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										(Continued)
					FΙ	G. 4	-74			(00110111111111111111111111111111111111
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587	CE1 CD2 CE2 CZ OH C	TYR	468 468 468 468 468 468 468 468 468	27. 969 29. 091 28. 801 27. 588 26. 308 25. 206 27. 734 26. 638 25. 380 24. 304 29. 501	51. 370 51. 765 53. 043 53. 011 53. 214 53. 308 52. 883 52. 971 53. 191 53. 334 50. 675	25. 641 26. 462 27. 249 28. 155 27. 646 28. 486 29. 537 30. 390 29. 857 30. 695 27. 411	1. 00 23. 06 1. 00 22. 80 1. 00 23. 88 1. 00 24. 49 1. 00 23. 81 1. 00 25. 51 1. 00 26. 39 1. 00 25. 67 1. 00 25. 81 1. 00 25. 95 1. 00 21. 32	A A A A A A A	N C C C C C C C
ATOM ATOM	3588 3589	O N	TYR GLN		28. 672 30. 800	50. 059 50. 431	28. 070 27. 449	1.00 22.73 1.00 20.26	A A	O N
ATOM	3590	CA	GLN	469	31.368	49.429	28. 315	1.00 19.27	A	C
ATOM ATOM	3591 3592	CB CG	GLN GLN		32. 643 33. 460	48. 864 47. 993	27. 695 28. 632	1.00 20.12 1.00 21.72	A	C
ATOM	3593	CD	GLN		34. 891	47. 845	28. 169	1.00 21.72	A A	C C
ATOM	3594	0E1	GLN	469	35.605	48.837	28.011	1.00 25.81	A	Ö
ATOM	3595		GLN		35. 322	46. 609	27. 948	1.00 23.84	A	N
ATOM ATOM	3596 3597	C 0	GLN GLN		31.712 32.331	50. 158 51. 226	29. 589 29. 549	1.00 19.50 1.00 19.63	A A	C 0
ATOM	3598	N	LEU		31. 277	49. 611	30. 716	1.00 19.03	A	N N
ATOM	3599	CA	LEU	470	31.602	50. 203	32.002	1.00 20.27	A	Ċ
ATOM	3600	CB	LEU		30. 410	50. 136	32.961	1.00 20.14	A	C
ATOM ATOM	3601 3602	CG	LEU LEU	470 470	29. 442 28. 373	51.323	32. 929	1.00 21.50	A	C
ATOM	3603		LEU	470	30. 200	51. 132 52. 620	33. 996 33. 184	1.00 19.33 1.00 19.44	A A	C C
ATOM	3604	C	LEU	470	32. 768	49. 380	32. 531	1.00 20.91	A	Č
ATOM	3605	0	LEU	470	32. 785	48. 152	32.409	1.00 19.97	Ä	ŏ
ATOM	3606	N	ARG	471	33. 753	50.050	33. 102	1.00 22.57	Α	N
ATOM	3607	CA	ARG	471	34. 917	49. 344	33.610	1.00 25.83	A	C
ATOM ATOM	3608 3609	CB CG	ARG ARG	471 471	36. 137 35. 927	49. 690 49. 386	32. 748 31. 261	1.00 29.78 1.00 31.73	A - A	C C
ATOM	3610	CD	ARG	471	37. 091	49. 871	30. 426	1.00 31.13	A	C
ATOM	3611	NE	ARG	471	36. 939	51. 261	30.005	1.00 35.86	A	Ň
ATOM	3612	CZ	ARG	471	37.961	52.061	29.723	1.00 35.39	Α	С
ATOM	3613	NH1	ARG	471	39. 202	51.606	29.830	1.00 37.87	A	N
ATOM ATOM	3614 3615	NHZ C	ARG ARG	471 471	37. 747 35. 171	53. 304 49. 686	29. 321	1.00 36.33	A	N
ATOM	3616	Ö	ARG	471	35. 685	50. 750	35. 064 35. 388	1.00 24.89 1.00 27.07	A A	C 0
ATOM	3617	Ň	CYS	472	34. 794	48. 766	35. 935	1.00 24.59	A	N
ATOM	3618	CA	CYS	472	34.948	48. 925	37. 373	1.00 25.55	A	Ċ
ATOM	3619	C	CYS	472	36. 328	48.418	37.806	1.00 23.33	Α	С
ATOM	3620	0	CYS	472	36. 738	47. 319	37. 433	1.00 22.34	A	0
ATOM ATOM	3621 3622	CB SG	CYS CYS	472 472	33. 812 34. 037	48. 150 47. 670	38. 059 39. 797	1.00 26.66 1.00 33.06	A A	C S
ATOM	3623	N	SER	473	37. 049	49. 219	38. 583	1.00 33.00	A A	N N
ATOM	3624	CA	SER	473	38. 377	48. 809	39. 022	1.00 23.17	A	Č
ATOM	3625	CB	SER	473	39. 446	49. 724	38.414	1.00 21.92	A	C

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					r I	G. 4	- / 5			
ATOM	3626	0G	SER		39. 500	50.976	39. 071	1.00 23.39	Α	0
ATOM	3627	C	SER		38. 557	48. 754	40. 536	1.00 23.29	A	C
ATOM	3628	0	SER		39. 685		41.028	1.00 24.44	A	0
ATOM	3629	N	GLY	474	37. 457	48.697	41. 279 42. 724	1.00 23.29	A	N
ATOM	3630	CA	GLY		37. 573	48. 627 49. 075	42. 724	1.00 23.91	A	C
ATOM ATOM	3631 3632	C 0	GLY GLY	474 474	36. 330 35. 434	49.658	43. 439	1.00 24.41 1.00 25.28	A	C 0
ATOM	3633	N	PRO		36. 257	48. 850	44. 780	1.00 23.28	A A	N N
ATOM	3634	CD	PRO	475	35. 174		45. 623	1.00 24.38	A	C
ATOM	3635	CA	PRO	475	37. 280		45. 609	1.00 24.00	A	Č
ATOM	3636	CB	PRO	475	36. 887	48. 620	47. 022	1.00 22.53	A	Č
ATOM	3637	CG	PRO	475	35. 419	48. 692	46. 945	1.00 25.59	A	č
ATOM	3638	Č	PRO	475	37. 397	46. 692	45. 462	1.00 24.86	Ä	č
ATOM	3639	0	PRO	475	38. 294	46.081	46.044	1.00 26.60	A	Ö
ATOM	3640	N	GLY	476	36. 502	46.085	44.691	1.00 24.35	Α	N
ATOM	3641	CA	GLY	476	36. 564	44.646	44. 498	1.00 23.50	Α	С
ATOM	3642	C	GLY	476	37. 324	44.316	43. 227	1.00 24.87	Α	C
ATOM	3643	0	GLY	476	37. 925	45. 198	42.613	1.00 24.65	Α	0
ATOM	3644	N	LEU	477	37. 308	43.054	42.818	1.00 24.78	Α	N
ATOM	3645	CA	LEU	477	38. 003	42.681	41.601	1.00 25.85	Α	C
ATOM	3646	CB	LEU	477	37. 927	41.171	41. 383	1.00 26.86	A	C
ATOM	3647	CG	LEU	477	38. 661	40. 296	42. 404	1.00 27.45	A	C
ATOM	3648		LEU	477	38. 626	38. 851	41. 943	1.00 27.65	A	C
ATOM ATOM	3649 3650	CD2	LEU LEU	477 477	40. 102 37. 369	40.759	42. 556	1.00 27.87	A	C
ATOM	3651	0	LEU	477	36. 160	43. 417 43. 663	40. 424 40. 405	1.00 27.45 1.00 27.68	A	C
ATOM	3652	N	PRO	478	38. 183	43. 792	39. 428	1.00 27.08	A	0
ATOM	3653	CD	PRO	478	39. 645	43. 637	39. 362	1.00 27.18	A A	N C
ATOM	3654	CA	PRO	478	37. 684	44. 505	38. 253	1.00 25.83	A	C
ATOM	3655	CB	PRO	478	38. 908	44. 569	37. 351	1.00 27.68	A	Č
ATOM	3656	CG	PRO	478	40. 023	44.676	38. 335	1.00 27.43	A	č
ATOM	3657	C	PRO	478	36. 509	43.806	37. 591	1.00 24.68	A	č
ATOM	3658	0	PRO	478	36.464	42.583	37.506	1.00 23.74	Ä	Ö
ATOM	3659	N	LEU	479	35. 561	44.600	37.116	1.00 24.02	A	N
ATOM	3660	CA	LEU	479	34. 376	44.068	36.465	1.00 23.10	Α	C
ATOM	3661	CB	LEU	479	33. 186	44. 151	37. 420	1.00 21.62	Α	С
ATOM	3662		LEU	479	31.845	43. 702	36.854	1.00 21.11	Α	C
ATOM	3663		LEU	479	31.915	42. 245	36. 430	1.00 21.98	Α	C
ATOM	3664		LEU	479	30. 778	43. 901	37. 912	1.00 24.17	A	C
ATOM	3665	C	LEU	479	34. 077	44.857	35. 199	1.00 22.18	A	C
ATOM	3666	0 N	LEU	479	33. 942	46.073	35. 244	1.00 22.27	A	0
ATOM ATOM	3667 3668	N CA	TYR TYR	480 480	33. 978 33. 690	44. 160	34. 073	1.00 22.51	A	N
ATOM	3669	CB	TYR	480	34. 709	44. 801 44. 353	32. 790 31. 749	1.00 22.76 1.00 22.59	A	C
ATOM	3670	CG	TYR	480	36. 123	44. 657	32. 147	1.00 22.39	A A	C C
ATOM	3671		TYR	480	36. 702	45. 885	31. 843	1.00 21.93	A	C
ATOM	3672		TYR	480	37. 999	46. 190	32. 249	1.00 23.84	A	Č
ATOM	3673	CD2		480	36.872	43. 733	32. 870	1.00 22.05	A	č
ATOM	3674	CE2	TYR	480	38. 165	44.027	33. 286	1.00 23.52	A	Č

					FI	G. 4	- 76			(Continued)
ATOM ATOM ATOM ATOM ATOM	3675 3676 3677 3678 3679	OH C O N	TYR TYR TYR THR	480 480 480 481	38. 722 39. 998 32. 291 31. 964 31. 472	45. 257 45. 556 44. 422 43. 239 45. 425		1.00 24.29 1.00 26.37 1.00 23.22 1.00 23.21 1.00 23.50	A A A A	C O C O N
ATOM ATOM ATOM ATOM ATOM ATOM	3680 3681 3682 3683 3684 3685	CA CB OG: CG: C	THR THR 1 THR 2 THR THR THR	481 481 481 481 481	30. 101 29. 097 29. 190 29. 398 29. 740 30. 298	45. 181 45. 513 46. 905 44. 699 46. 015 47. 091	31. 577 32. 702 33. 024 33. 951 30. 351 30. 136	1. 00 22. 82 1. 00 22. 81 1. 00 23. 28 1. 00 21. 29 1. 00 23. 25 1. 00 24. 47	A A A A A	C C O C C
ATOM ATOM ATOM ATOM ATOM	3686 3687 3688 3689 3690	N CA CB CG CD1	LEU LEU LEU LEU LEU	482 482 482 482 482	28. 809 28. 368 28. 310 28. 216 29. 483	45. 512 46. 219 45. 268 45. 922 46. 721	29. 547 28. 350 27. 155 25. 773 25. 507	1. 00 23. 21 1. 00 23. 54 1. 00 22. 93 1. 00 23. 14 1. 00 23. 20	A A A A	N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	3691 3692 3693 3694 3695 3696	C O N CA CB	LEU LEU LEU HIS HIS HIS	482 482 482 483 483	28. 043 26. 981 26. 254 26. 610 25. 301 25. 420	44. 861 46. 767 46. 207 47. 861 48. 459 49. 528	24. 699 28. 643 29. 458 27. 994 28. 231 29. 321	1. 00 22. 53 1. 00 23. 83 1. 00 25. 57 1. 00 22. 84 1. 00 22. 49 1. 00 22. 16	A A A A A	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	3697 3698 3699 3700 3701 3702	ND1 CE1	HIS HIS HIS HIS HIS	483 483 483 483 483 483		49. 025 48. 904 48. 567 48. 189 48. 382 49. 097	30. 604 31. 012 31. 648 32. 644 32. 283 26. 950	1.00 24.44 1.00 25.98 1.00 25.15 1.00 23.97 1.00 22.74 1.00 22.46	A A A A A	C C N C N C
ATOM ATOM ATOM ATOM ATOM ATOM	3703 3704 3705 3706 3707 3708	O N CA CB OG C	HIS SER SER SER SER SER	483 484 484 484 484 484	25. 507 23. 475 22. 890 21. 789 20. 721	49. 281 49. 427 50. 078 49. 216 49. 057 51. 427	25. 987 26. 932 25. 768 25. 164 26. 068	1.00 24.72 1.00 20.23 1.00 19.27 1.00 19.99 1.00 26.06	A A A A	0 N C C O
ATOM ATOM ATOM ATOM ATOM ATOM	3709 3710 3711 3712 3713	O N CA CB OG	SER SER SER SER SER	484 485 485 485 485	21. 656 22. 628 22. 198 23. 025 24. 386	51. 521 52. 470 53. 823 54. 841 54. 769	26. 213 27. 232 25. 445 25. 783 25. 000 25. 379	1.00 19.12 1.00 19.17 1.00 19.29 1.00 20.52 1.00 20.72 1.00 23.68	A A A A A	C O N C C
ATOM ATOM ATOM ATOM ATOM	3714 3715 3716 3717 3718 3719	C O N CA CB	SER SER VAL VAL VAL VAL	485 485 486 486 486	20. 208 20. 055 18. 653 18. 058 18. 099	54. 160 55. 040 53. 477 53. 764 52. 816 51. 383	25. 604 26. 287 24. 688 24. 444 23. 380 23. 869	1. 00 20. 05 1. 00 18. 92 1. 00 20. 23 1. 00 19. 23 1. 00 19. 24 1. 00 19. 40	A A A A A	C O N C C C
ATOM ATOM ATOM ATOM	3720 3721 3722 3723	CG2 C O N	VAL VAL VAL ASN	486 486 486 487	17. 817 16. 869	53. 223 53. 655 54. 415 52. 727		1. 00 20. 10 1. 00 19. 72 1. 00 20. 98 1. 00 20. 80	A A A	C C O N

					FIG. 4-7	7 7		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3760	ND2 C O N CA CB CD1 OD2 C O N CA CB CD CO N CA CB CD1 C O N CA CB CD1 C O N CA CB CD1 C O N CA CB CD1	LEU LEU ARG	487 487 487 487 487 488 488 488 488 488	17. 458       52. 464       27         16. 587       51. 229       27         17. 403       50. 007       27         16. 853       48. 948       26         18. 722       50. 158       27         18. 354       52. 220       29         17. 865       51. 758       30         19. 650       52. 514       28         20. 606       52. 290       30         20. 415       53. 304       31         20. 780       54. 718       30         21. 933       54. 956       30         19. 907       55. 601       30         20. 488       50. 883       30         20. 709       50. 689       31         20. 127       49. 902       29         20. 009       48. 541       30         18. 837       47. 817       29         17. 651       47. 594       30         17. 247       48. 906       31         16. 346       48. 695       32         16. 283       49. 944       33         21. 297       47. 749       30         21. 997       47. 914       29         21. 605	. 824	A A A A A A A A A A A A A A A A A A A	C C C O N C O C C O O C O N C C C C C C
ATOM ATOM ATOM ATOM	3761 3762 3763 3764	CA CB CG CD	ARG ARG ARG ARG	492 492 492 492	25. 798 41. 529 29. 26. 045 40. 524 28. 27. 159 40. 919 27. 27. 105 40. 081 26.	780 1.00 24.07 648 1.00 24.82 666 1.00 26.62	A A A	C C C
ATOM ATOM ATOM ATOM ATOM	3765 3766 3767 3768	NE CZ	ARG ARG ARG	492 492 492 492 492	25. 884 40. 357 25. 25. 708 41. 414 24. 26. 684 42. 297 24. 24. 540 41. 610 24. 27. 117 41. 831 30.	641 1.00 29.45 855 1.00 30.52 692 1.00 31.57 261 1.00 29.62	A A A A A	N C N N
ATOM ATOM ATOM	3770 3771	O N CA	ARG VAL VAL	492 493 493	27. 602 42. 958 30. 42. 680 40. 807 31. 28. 966 40. 911 31.	438 1.00 22.78 109 1.00 24.93	A A A	C O N C

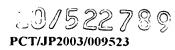


				FIG. 4-78	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3773 3774 3775 3776 3777 3778 3779 3780 3781 3782 3783 3784 3785 3786 3787 3788 3790 3791 3792 3793 3794 3795 3796 3797 3798 3799 3800 3801 3802 3803 3803	CB VAL CG1 VAL CG2 VAL C VAL O VAL N LEU CA LEU CB LEU CD1 LEU CD2 LEU C LEU C LEU C GLU CB GLU CB GLU CG GLU CA ASP	493 493 493 493 494 494 494 494 495 495 495 495 496 496 496 496 496 497 497	FIG. 4 - 78  29.018 40.034 33.052 1.00 25.39 A 30.401 40.104 33.667 1.00 25.63 A 27.977 40.482 34.044 1.00 25.35 A 30.022 40.382 30.823 1.00 26.55 A 29.858 39.307 30.250 1.00 29.06 A 31.103 41.125 30.644 1.00 26.28 A 32.154 40.705 29.731 1.00 25.35 A 32.657 41.913 28.944 1.00 23.74 A 31.611 42.554 28.031 1.00 22.82 A 32.017 43.989 27.697 1.00 22.82 A 31.453 41.706 26.769 1.00 19.11 A 33.315 40.034 30.453 1.00 26.29 A 34.001 39.182 29.885 1.00 29.20 A 33.536 40.420 31.703 1.00 24.94 A 34.623 39.859 32.498 1.00 24.93 A 35.969 40.445 32.060 1.00 24.93 A 35.969 40.445 32.060 1.00 24.61 A 37.153 39.938 32.862 1.00 27.02 A 37.323 38.435 32.733 1.00 29.20 A 37.363 37.724 33.760 1.00 29.22 A 37.539 37.962 31.596 1.00 30.56 A 34.357 40.210 33.951 1.00 25.32 A 34.146 41.380 34.285 1.00 24.97 A 34.358 39.197 34.809 1.00 25.38 A 34.093 39.409 36.224 1.00 27.01 A 32.761 38.757 36.602 1.00 27.71 A 32.814 37.236 36.567 1.00 27.71 A 33.898 36.657 36.360 1.00 29.23 A 35.213 38.889 37.127 1.00 27.65 A 35.177 39.071 38.345 1.00 27.52 A 37.329 37.717 37.287 1.00 29.40 A	CCCCONCCCCCONCCCCOOCONCCCCOOCONC
ATOM ATOM ATOM ATOM ATOM	3805 3806 3807 3808 3809	CB ASN CG ASN OD1 ASN ND2 ASN C ASN	497 497 497 497 497	38. 047 38. 863 37. 998 1. 00 28. 73 A 38. 973 39. 622 37. 080 1. 00 29. 26 A 39. 988 39. 093 36. 630 1. 00 27. 48 A 38. 628 40. 870 36. 792 1. 00 31. 42 A 36. 946 36. 652 38. 301 1. 00 30. 77	C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	3810 3811 3812 3813 3814 3815	O ASN N SER CA SER CB SER OG SER C SER	497 498 498 498 498 498	37. 407       36. 669       39. 444       1. 00       31. 70       A         36. 108       35. 721       37. 869       1. 00       31. 77       A         35. 666       34. 629       38. 716       1. 00       31. 32       A         34. 644       33. 778       37. 974       1. 00       32. 01       A         33. 520       34. 561       37. 629       1. 00       35. 01       A         36. 854       33. 772       39. 093       1. 00       30. 55       A	0 N C C O C
ATOM ATOM ATOM ATOM ATOM ATOM	3816 3817 3818 3819 3820 3821	O SER N ALA CA ALA CB ALA C ALA O ALA	498 499 499 499 499 499	36. 854 33. 772 39. 093 1. 00 30. 55 A 37. 056 33. 456 40. 266 1. 00 31. 44 A 37. 638 33. 398 38. 087 1. 00 29. 46 A 38. 814 32. 566 38. 304 1. 00 29. 07 A 39. 626 32. 477 37. 033 1. 00 27. 47 A 39. 657 33. 156 39. 421 1. 00 30. 28 A 39. 885 32. 515 40. 447 1. 00 30. 98 A	O N C C C

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					FI	G. 4	- 79			
ATOM	3822	N	LEU	500	40. 098	34. 393	39. 223	1.00 30.98	Α	N
ATOM	3823	CA	LEU	500	40.919	35. 073	40. 208	1.00 31.89	A	Ċ
ATOM	3824	CB	LEU	500	41.218	36.502	39.755	1.00 31.32	A	C
ATOM	3825		LEU	500	42.106	37. 312	40.703	1.00 31.18	A	C
ATOM	3826		LEU	500	43.459	36.635	40.871	1.00 29.43	Α	С
ATOM	3827		LEU	500	42. 269	38.711	40.155	1.00 31.85	Α	C
ATOM	3828	C	LEU	500	40.251	35.096	41.574	1.00 33.26	Α	C
<b>ATOM</b>	3829	0	LEU	500	40.878	34.772	42.578	1.00 33.38	Α	0
<b>ATOM</b>	3830	N	ASP	501	38.984	35.484	41.624	1.00 35.48	Α	N
ATOM	3831	CA	ASP	501	38. 294	35.522	42.905	1.00 38.46	Α	C
ATOM	3832	CB	ASP	501	36.815	35.859	42.720	1.00 40.04	Α	C
ATOM	3833	CG	ASP	501	36.068	35. 942	44.043	1.00 42.67	Α	С
ATOM	3834	0D1	ASP	501	36. 349	36.870	44.831	1.00 44.51	Α	0
ATOM	3835	0D2		501	35. 202	35.076	44.300	1.00 44.58	Α	0
ATOM	3836	C	ASP	501	38. 432	34.149	43. 557	1.00 39.76	Α	С
ATOM	3837	0	ASP	501	38.622	34.039	44. 765	1.00 39.03	Α	0
ATOM	3838	N	LYS	502	38. 352	33. 103	42.740	1.00 41.28	Α	N
ATOM	3839	CA	LYS	502	38.470	31.741	43. 237	1.00 42.62	Α	С
ATOM	3840	CB	LYS	502	38. 206	30. 746	42. 100	1.00 44.22	Α	C
ATOM	3841	CG	LYS	502	37. 853	29. 323	42.548	1.00 45.49	Α	C
ATOM	3842	CD	LYS	502	39. 071	28. 557	43.050	1.00 47.22	Α	C
ATOM	3843	CE	LYS	502	38. 700	27. 147	43.516	1.00 47.98	A	C
ATOM	3844	NZ	LYS	502	37. 783	27. 155	44.696	1.00 47.33	A	N
ATOM	3845	C	LYS	502	39. 866	31.534	43. 828	1.00 43.11	A	C
ATOM	3846	0	LYS	502	40.001	31.079	44. 963	1.00 43.40	A	0
ATOM	3847	N	MET	503	40. 900	31. 881	43.064	1.00 42.72	A	N
ATOM	3848	CA	MET	503	42. 280	31. 735	43. 528	1.00 43.17	A	C
ATOM	3849	CB	MET	503	43. 256	32. 193	42.444	1.00 45.35	A	C
ATOM	3850	CG	MET	503	43. 267	31.332	41. 200	1.00 48.35	A	C
ATOM	3851	SD	MET	503	44. 396	32.004	39. 952	1.00 54.36	A	S
ATOM	3852	CE	MET	503	45. 957	31. 226 32. 530	40. 438	1.00 52.89	A	C
ATOM	3853	0 C	MET	503	42. 551		44. 807	1.00 41.81	A	C
ATOM ATOM	3854 3855	N	MET LEU	503 504	43. 059	31. 990 33. 815	45. 790	1.00 40.44	A	0
ATOM	3856	CA	LEU	504 504	42. 215 42. 412	34. 700	44. 779 45. 919	1.00 41.12 1.00 42.37	A	N C
ATOM	3857	CB	LEU	504 504	41. 914	36. 103	45. 566	1.00 42.37	A A	C C
ATOM	3858	CG	LEU	504 504	42. 960	37. 197	45. 314	1.00 41.30	A	Č
ATOM	3859		LEU	504	44. 111	36.668	44. 472	1.00 42.42	A	Č
ATOM	3860		LEU	504	42. 277	38. 376	44. 635	1.00 40.64	A	č
ATOM	3861	C	LEU	504	41. 727	34. 211	47. 199	1.00 43.78	Ä	č
ATOM	3862	Ŏ	LEU	504	42.056	34.664	48. 298	1.00 43.47	Ä	Ö
ATOM	3863	Ň	GLN	505	40.774	33. 292	47.054	1.00 44.74	Ä	N
ATOM	3864	ĊA	GLN	505	40.053	32.737	48. 198	1.00 45.12	Ä	Ċ
ATOM	3865	CB	GLN	505	38. 911	31.834	47. 721	1.00 47.10	Ä	Č
ATOM	3866	CG	GLN	505	37. 767	32.574	47.059	1.00 50.85	Ä	Č
ATOM	3867	CD	GLN	505	37.091	33.544	48.005	1.00 52.28	A	Č
ATOM	3868		GLN	505	36. 320	33. 143	48.878	1.00 53.91	Α	0
ATOM	3869		GLN	505	37. 390	34.829	47.848	1.00 53.20	Α	N
ATOM	3870	C	GLN	505	40. 981	31.920	49.090	1.00 44.28	Α	С

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ATOM	3871	0	GLN	505	40.806	31.863	50. 309	1.00 44.07	Α	0
ATOM	3872	N	ASN	506	41.970	31. 288	48. 473	1.00 43.04	A	N
ATOM	3873	CA	ASN	506	42.907	30. 452	49. 205	1.00 43.10	Ä	C
		CB	ASN	506	43. 301	29. 254	48. 344	1.00 47.04	A	Č
ATOM	3874				43. 962	28. 157	49. 141	1.00 50.97	A	č
ATOM	3875	CG	ASN	506				1.00 53.71	A	ŏ
ATOM	3876	OD1	ASN	506	44. 478	27. 187	48. 575			N
ATOM	3877	ND2	ASN	506	43. 945	28. 293	50. 467	1.00 52.33	A	
ATOM	3878	C	ASN	506	44. 156	31. 211	49.635	1.00 41.53	A	C
ATOM	3879	0	ASN	506	45. 191	30.605	49.903	1.00 41.33	A	0
ATOM	3880	N	VAL	507	44.060	32. 538	49.696	1.00 39.25	A	N
ATOM	3881	CA	VAL	507	45.186	33. 367	50.110	1.00 35.74	A	Č
ATOM	3882	CB	VAL	507	45.801	34. 155	48. 927	1.00 35.80	A	C
ATOM	3883	CG1	VAL	507	46. 989	34. 974	49.416	1.00 34.07	Α	C
ATOM	3884	CG2	VAL	507	46. 234	33. 204	47.823	1.00 34.58	Α	С
ATOM	3885	C	VAL	507	44.726	34.369	51.154	1.00 34.07	Α	C
ATOM	3886	0	VAL	507	43.617	34.887	51.080	1.00 33.19	Α	0
ATOM	3887	N	GLN	508	45. 586	34.634	52.129	1.00 33.03	Α	N
ATOM	3888	CA	GLN	508	45. 272	35.578	53.191	1.00 31.62	Α	С
ATOM	3889	CB	GLN	508	46. 146	35. 307	54.418	1.00 31.47	A	C
ATOM	3890	CG	GLN	508	46.034	33. 894	54. 970	1.00 31.59	A	Č
ATOM	3891	CD	GLN	508	46. 955	33. 667	56. 155	1.00 30.69	A	Č
ATOM	3892	0E1	GLN	508	46. 994	34. 471	57. 083	1.00 31.83	Ä	ŏ
ATOM	3893	NE2		508	47. 696	32. 568	56. 130	1.00 28.80	A	N
		C	GLN	508	45. 521	36. 996	52. 689	1.00 30.18	A	Č
ATOM	3894					37. 648	53. 097	1.00 29.60	A	Ö
ATOM	3895	0	GLN	508	46.480			1.00 29.00		
ATOM	3896	N	MET	509	44.652	37. 463	51.801		A	N
ATOM	3897	CA	MET	509	44. 775	38. 797	51. 236	1.00 28.64	A	C
ATOM	3898	CB	MET	509	43. 744	38. 993	50. 124	1.00 30.06	A	C
ATOM	3899	CG	MET	509	44.004	38. 143	48. 896	1.00 31.71	A	C
ATOM	3900	SD	MET	509	45. 605	38. 540	48. 171	1.00 34.08	A	S
ATOM	3901	CE	MET	509	45. 130	39. 727	46. 922	1.00 30.89	A	C
ATOM	3902	C	MET	509	44.602	39.890	<b>52.</b> 280	1.00 27.67	A	C
ATOM	3903	0	MET	509	43. 875	39. 724	53. 255	1.00 28.41	A	0
ATOM	3904	N	PRO	510	45. 279	41.032	52.085	1.00 26.51	Α	N
ATOM	3905	CD	PRO	510	46. 198	41.361	50. 978	1.00 25.01	Α	C
ATOM	3906	CA	PRO	510	45.180	42. 150	53.023	1.00 24.17	Α	C
ATOM	3907	CB	PRO	510	46.401	42.985	52.672	1.00 24.51	Α	C
ATOM	3908	CG	PRO	510	46.442	42.847	51.185	1.00 23.21	Α	C
ATOM	3909	C	PRO	510	43.881	42.896	52.741	1.00 23.17	Α	C
ATOM	3910	Ö	PRO	510	43. 209	42.632	51.751	1.00 24.30	Α	0
ATOM	3911	Ň	SER	511	43. 527	43.826	53.607	1.00 22.25	Α	N
ATOM	3912	CA	SER	511	42.315	44. 592	53. 409	1.00 23.52	Α	C
ATOM	3913	CB	SER	511	41.375	44. 441	54.606	1.00 21.47	Ä	Č
ATOM	3914	OG	SER	511	42.000	44. 897	55. 796	1.00 22.50	Â	ŏ
ATOM	3915	C	SER	511	42.734	46. 043	53. 258	1.00 25.81	Ä	Č
ATOM	3916	Ö	SER	511	43. 823	46. 433	53. 687	1.00 27.50	Ä	ŏ
	3917	N	LYS	512	41.869	46. 838	52.642	1.00 25.44	A	N
ATOM	3918	CA	LYS	512	42. 148	48. 242	52. 437	1.00 24.17	Ä	Ċ
ATOM				512	42. 148	48. 555	50. 943	1.00 23.04	A	Č
ATOM	3919	CB	LYS	012	44.118	40.000	JU. 343	1.00 40.04	п	U

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ATOM ATOM	3920 3921	CG CD	LYS LYS	512 512	42. 252 42. 368	50. 043 50. 249	50. 621 49. 125	1.00 21.12 1.00 21.07	A A	C C
ATOM	3922	CE	LYS	512	42.639	51.688	48. 792	1.00 19.46	A	C
ATOM	3923	NZ	LYS	512	42. 779 41. 095	51.870 49.109	47. 343	1.00 15.68 1.00 24.25	A	N C
ATOM ATOM	3924 3925	0 C	LYS LYS	512 512	39. 905	49. 109	53. 105 52. 846	1.00 24.25	A A	0
ATOM	3926	N	LYS	513	41.546	50.017	53.960	1.00 24.50	Ä	N
ATOM	3927	CA	LYS	513	40.661	50.941	54.647	1.00 25.28	Α	C
ATOM	3928	CB	LYS	513	41.040	51.041	56. 124	1.00 26.65	A	C
ATOM	3929	CG	LYS	513	40. 202	52. 025	56.914	1.00 27.55	A	C
ATOM ATOM	3930 3931	CD CE	LYS LYS	513 513	38. 754 37. 901	51. 577 52. 476	56. 954 57. 844	1.00 33.11 1.00 35.12	A A	C
ATOM	3932	NZ	LYS	513	36. 503	51. 943	57. 960	1. 00 33. 12	A	N
ATOM	3933	C	LYS	513	40.806	52. 312	53. 999	1.00 26.42	A	C
ATOM	3934	0	LYS	513	41.918	52.829	53.877	1.00 28.66	Α	0
ATOM	3935	N	LEU	514	39. 688	52. 891	53. 575	1.00 25.40	A	N
ATOM	3936 3937	CA CB	LEU LEU	514 514	39. 688 39. 147	54. 213 54. 119	52. 958 51. 536	1. 00 22. 53 1. 00 20. 88	A	C
ATOM ATOM	3938	CG	LEU	514	38. 866	55. 443	50. 825	1.00 20.88	A A	C C
ATOM	3939	CD1		514	40. 149	56. 242	50.662	1.00 20.94	Ä	Č
ATOM	3940	CD2	LEU	514	38. 244	55.153	49.476	1.00 22.59	A	C
ATOM	3941	C	LEU	514	38. 812	55. 151	53. 788	1.00 22.73	A	C
ATOM	3942	0	LEU	514	37. 591	54. 981	53. 844	1.00 20.65	A	0
ATOM ATOM	3943 3944	N CA	ASP ASP	515 515	39. 435 38. 693	56. 132 57. 076	54. 437 55. 268	1.00 23.05 1.00 25.43	A A	N C
ATOM	3945	CB	ASP	515	38. 581	56. 535	56. 693	1.00 23.45	A	Č
ATOM	3946	CG	ASP	515	37. 419	57.142	57. 458	1.00 30.82	Ä	Č
ATOM	3947	0D1	ASP	515	37. 278	56.851	58.668	1.00 32.73	Α	0
ATOM	3948	0D2	ASP	515	36. 639	57. 905	56. 851	1.00 32.89	A	0
ATOM ATOM	3949 3950	C 0	ASP ASP	515 515	39. 346 40. 054	58. 462 58. 835	55. 287 54. 357	1.00 26.80 1.00 27.23	A	C
ATOM	3951	N	PHE	516	39. 107	59. 230	56. 345	1.00 27.23	A A	0 N
ATOM	3952	ĊA	PHE	516	39. 688	60.566	56. 431	1.00 28.71	A	C
ATOM	3953	CB	PHE	516	38.780	61.590	55.729	1.00 28.60	A	Č
ATOM	3954	CG	PHE	516	37. 387	61.658	56. 291	1.00 28.84	A	C
ATOM	3955	CD1	PHE	516	37. 160	62.115	57. 583	1.00 29.59	A	C
ATOM ATOM	3956 3957	CD2 CE1		516 516	36. 297 35. 875	61. 242 62. 157	55. 532 58. 116	1.00 30.94 1.00 28.99	A A	C
ATOM	3958	CE2		516	35. 002	61. 279	56.058	1.00 29.88	Â	Č
ATOM	3959	CZ	PHE	516	34.795	61.737	57.352	1.00 29.33	A	Č
ATOM	3960	C	PHE	516	39. 943	61.024	57.861	1.00 28.58	Α	C
ATOM	3961	0	PHE	516	39. 414	60. 450	58. 811	1.00 29.42	A	0
ATOM ATOM	3962 3963	N CA	ILE ILE	517 517	40. 773 41. 094	62. 053 62. 651	57. 990 59. 272	1.00 26.80 1.00 28.68	A A	N C
ATOM	3964	CB	ILE	517	42. 580	62. 410	59. 686	1.00 27.66	A	C
ATOM	3965	CG2	ILE	517	42. 799	60. 937	59. 989	1.00 23.78	Ä	Č
ATOM	3966	CG1	ILE	517	43. 538	62.861	58. 581	1.00 29.30	Α	C
ATOM	3967	CD1		517	43. 676	64. 361	58. 431	1.00 31.79	A	C
ATOM	3968	С	ILE	517	40. 829	64. 132	59.041	1.00 30.84	Α	С

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(									(Continued)	
					FΙ	G. 4	- 83			(0011011111011)
MOTA	4010	0	LYS	523	39.962	66.661	53. 448	1.00 29.90	Α	0
ATOM	4018	N	PHE	524	40. 711	65. 329	55. 086	1.00 26.11	A	N
ATOM	4019	CA	PHE	524 524	41.857	64. 858	54. 334	1.00 23.17	A	Ċ
ATOM	4020 4021		PHE	524 524	43. 139	65. 407	54. 953	1.00 22.95	A	č
ATOM ATOM	4021		PHE	524	43. 394	66. 854	54. 636	1.00 21.35	A	č
ATOM	4022	CD1		524	43. 773	67. 242	53. 346	1.00 21.14	Ä	č
ATOM	4023	CD2		524	43. 265	67. 830	55. 620	1.00 18.86	A	č
ATOM	4025	CE1		524	44. 026	68. 587	53.040	1.00 19.22	Ä	Č
ATOM	4026	CE2		524	43. 512	69.171	55. 329	1.00 19.37	Ā	Č
ATOM	4027		PHE	524	43. 895	69. 552	54.034	1.00 19.34	Ä	Č
ATOM	4028	C	PHE	524	41.872	63. 337	54. 328	1.00 23.15	Ā	Č
ATOM	4029	ŏ	PHE	524	42.084	62. 703	55. 356	1.00 22.01	A	0
ATOM	4030	N	TRP	525	41.640	62. 758	53.156	1.00 24.00	Α	N
ATOM	4031	ĊA	TRP	525	41.593	61.309	53.000	1.00 23.65	A	С
ATOM	4032	CB	TRP	525	40.875	60.958	51.696	1.00 23.74	A	С
ATOM	4033	CG	TRP	525	39.476	61.452	51.647	1.00 24.69	Α	С
ATOM	4034	CD2		525	38. 291	60.687	51.893	1.00 25.25	Α	С
ATOM	4035	CE2		525	37. 195	61.572	51.800	1.00 26.02	Α	С
ATOM	4036	CE3		525	38.049	59.339	52.186	1.00 25.53	Α	С
ATOM	4037	CD1		525	39.065	62.732	51.418	1.00 25.58	Α	C
ATOM	4038	NE1		525	37. 693	62.815	51.508	1.00 25.32	Α	N
ATOM	4039		TRP	525	35.874	61.151	51.990	1.00 25.72	Α	C
ATOM	4040		TRP	525	36. 735	58.919	52.374	1.00 24.54	Α	C
ATOM	4041	CH2	TRP	525	35.666	59.824	52. 276	1.00 24.86	A	С
ATOM	4042	C	TRP	525	42.927	60.566	53.042	1.00 23.39	Α	C
<b>ATOM</b>	4043	0	TRP	525	43. 994	61.127	52.803	1.00 24.19	A	0
ATOM	4044	N	TYR	526	42.840		53.347	1.00 22.63	Α	N
ATOM	4045	CA	TYR	<b>526</b>	44.002	58. 412	53.410	1.00 22.38	A	С
ATOM	4046	CB	TYR	526	44. 715	58. 546	54.763	1.00 22.15	A	C C
ATOM	4047	CG	TYR	526	43. 946		55. 929	1.00 24.08	A	C
ATOM	4048	CD1	TYR	526	43.968		56. 178	1.00 23.01	A	C C
ATOM	4049		TYR	526	43. 215	56.017	57. 204	1.00 25.01	A	
ATOM	4050		TYR	526	43. 150		56.747	1.00 24.62	A	C
ATOM	4051		TYR	526	42. 395		57. 772	1.00 24.74	A	C
ATOM	4052	CZ	TYR	526	42. 426		57. 997	1.00 25.67	A	C
ATOM	4053	OH	TYR	526	41.650		59.003	1.00 25.43	A	0
ATOM	4054	C	TYR	526	43. 478		53. 251	1.00 22.00	A	C
ATOM	4055	0	TYR	526	42. 294		53. 482	1.00 21.71	A	0
ATOM	4056	N	GLN	527	44. 353		52. 843	1.00 19.68	A	N
ATOM	4057	CA	GLN	527	43. 964		52. 707	1.00 20.14	A	C
ATOM	4058	CB	GLN	527	43. 842		51. 238	1.00 19.56	A	C
ATOM	4059	CG	GLN	527	45. 123		50.465	1.00 23.06	A	C C
ATOM	4060	CD	GLN	527	44. 986		49. 065 48. 359	1.00 23.49 1.00 25.79	A A	0
ATOM	4061	OE1		527	44.034		48. 648	1.00 25.79	A	N N
ATOM	4062		GLN	527	45. 937		53. 389	1.00 22.33	A	C
ATOM	4063 4064	C 0	GLN GLN	527 527	45. 038 46. 172		53. 563	1.00 20.07	A	0
ATOM ATOM	4004	N	MET	527 528	40.174		53. 792	1.00 13.12	A	N
ATOM	4066	CA	MET	528	45. 610		54. 460	1.00 22.32	A	Ĉ
VI Our	-1000	OIL	IIII	020	40.010	04.111	01.100	1.00 00.00		•

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					FI	G. 4	- 84			
ATOM	4067	СВ	MET	528	45. 372	51.753	55.967	1.00 23.57	Α	С
ATOM	4068	CG	MET	528	45.830	52. 971	56. 727	1.00 23.53	Ā	C
ATOM	4069	SD	MET	528	45.605	52.683	58.492	1.00 23.56	Α	S
ATOM	4070	CE	MET	528	46.400	54.107	59.158	1.00 21.91	Α	С
ATOM	4071	С	MET	528	45.482	50.347	53.974	1.00 23.25	Α	C
ATOM	4072	0	MET	528	44. 383	49.790	53.935	1.00 24.82	Α	0
ATOM	4073	N	ILE	529	46.605	49. 751	53.600	1.00 22.51	Α	N
ATOM	4074	CA	ILE	529	46.587	48. 363	53. 183	1.00 21.97	A	C
ATOM	4075	CB	ILE	529	47.644	48. 078	52. 116	1.00 19.54	A	C
ATOM	4076	CG2	ILE	529	47. 557	46. 635	51.681	1.00 18.75	A	C
ATOM	4077		ILE	529	47. 454	49. 029	50. 927	1.00 21.01	A	C C C
ATOM	4078	CD1	ILE	529	46.045	49. 038	50. 335	1.00 19.28 1.00 24.02	A	C
ATOM	4079	C	ILE	529 529	46.937 48.114	47. 620 47. 505	54. 465 54. 820	1.00 24.02	A A	0
ATOM	4080	O N	ILE LEU	529 530	45. 911	47. 153	54. 820 55. 175	1.00 23.31	A	N
ATOM ATOM	4081 4082	CA	LEU	530	46. 114	46. 443	56. 438	1.00 24.76	A	Č
ATOM	4082	CB	LEU	530	44. 915	46. 640	57. 370	1.00 24.10	A	č
ATOM	4084	CG	LEU	530	44. 451	48. 052	57. 726	1.00 24.92	Ä	Č
ATOM	4085		LEU	530	43. 365	47. 928	58. 763	1.00 26.76	Ä	Č
ATOM	4086		LEU	530	45.589	48.896	58. 272	1.00 25.50	A	C
ATOM	4087	C	LEU	530	46.337	44.953	56. 241	1.00 24.39	Α	C
ATOM	4088	0	LEU	530	45.686	44.319	55.411	1.00 24.58	Α	0
ATOM	4089	N	PRO	531	47. 272	44. 374	57.003	1.00 24.58	Α	N
ATOM	4090	CD	PRO	531	48. 174	45.045	57. 950	1.00 24.42	A	C
ATOM	4091	CA	PRO	531	47. 578	42. 943	56. 913	1.00 26.79	A	C
ATOM	.4092	CB	PRO	531	48. 763	42. 784	57. 862	1.00 26.36	Ą	C
ATOM	4093	CG	PRO	531	48.580	43. 913	58. 838	1.00 26.79	A	C
ATOM	4094	C	PRO	531	46. 388	42.078	57. 312	1.00 28.05 1.00 31.01	A	C
ATOM	4095 4096	0 N	PRO PRO	531 532	45. 443 46. 417	42. 562 40. 782	57. 931 56. 964	1.00 31.01	A A	0 N
ATOM ATOM	4090	CD	PRO	532 532	47. 484	40. 162	56. 253	1.00 28.42	A	C
ATOM	4098	CA	PRO	532	45.316	39. 874	57. 306	1.00 28.68	A	Č
ATOM	4099	CB	PRO	532	45. 783	38. 534	56. 745	1.00 28.68	Ä	č
ATOM	4100	CG	PRO	532	46.726	38. 912	55.659	1.00 28.50	A	Č
ATOM	4101	Č	PRO	532	45.113	39.799	58.814	1.00 29.80	Α	C
ATOM	4102	0	PR0	532	46.051	40.006	59.579	1.00 31.52	Α	0
ATOM	4103	N	HIS	533	43.894	39.501	59. 242	1.00 31.29	Α	N
ATOM	4104	CA	HIS	533	43.605	39. 382	60.670	1.00 31.80	A	C
ATOM	4105	CB	HIS	533	44. 278	38. 127	61. 225	1.00 29.82	A	C
ATOM	4106	CG	HIS	533	44. 170	36. 936	60. 324	1.00 29.23	A	C
ATOM	4107		HIS	533	45.114	36. 247	59.641	1.00 28.40	A	C
ATOM	4108		HIS	533	42.966	36. 335	60.024	1.00 28.40 1.00 28.67	A	N C
ATOM	4109		HIS HIS	533 533	43. 174 44. 469	35. 326 35. 251	59. 197 58. 949	1.00 28.85	A A	N
ATOM ATOM	4110 4111	C	HIS	533	44. 409	40.601	61.445	1.00 28.83	A	C
ATOM	4111	Ö	HIS	533	44. 469	40. 489	62. 617	1.00 33.11	A	ŏ
ATOM	4113	N	PHE	534	44. 121	41.758	60. 787	1.00 35.52	A	Ň
ATOM	4114	CA	PHE	534	44. 578	42. 987	61.427	1.00 37.29	A	Ċ
ATOM	4115	CB	PHE	534	44. 249	44. 203	60.555	1.00 36.11	Α	C
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SUBSTITUTE SHEET (RULE 26)

					FIG. 4-85		(Continued)
ATOM	4116	CG	PHE	534	44.510 45.523 61.235 1.00 35.46	A	С
ATOM	4117		PHE	534		A	C
ATOM	4118	CD2	PHE	534		A	С
<b>ATOM</b>	4119		PHE	534		A	C
ATOM	4120		PHE	534		A	C
ATOM	4121	CZ	PHE	534		A	C
ATOM	4122	C	PHE	534		A	C
ATOM	4123	0	PHE	534		A	0
ATOM	4124	N	ASP	535		A	N C
ATOM	4125	CA	ASP	535 525		A A	C C
ATOM ATOM	4126 4127	CB CG	ASP ASP	535 535		A	Č
ATOM	4128		ASP	535		A	ŏ
ATOM	4129		ASP	535		A	Ö
ATOM	4130	C	ASP	535		Ä	Č
ATOM	4131	ŏ	ASP	535		A	0
ATOM	4132	N	LYS	536		A	N
<b>ATOM</b>	4133	CA	LYS	536		A	C
ATOM	4134	CB	LYS	536		A	C C
ATOM	4135	CG	LYS	536		A	С
ATOM	4136	CD	LYS	536		A	C
ATOM	4137	CE	LYS	536		A	C
ATOM	4138	NZ	LYS	536		Ą	N
ATOM	4139	C	LYS	536		A	C
ATOM	4140	0 N	LYS	536		A	0 N
ATOM ATOM	4141 4142	N CA	SER SER	537 537		A A	N C
ATOM	4142	CB	SER	537		A	C
ATOM	4144	OG	SER	537		A	Ö
ATOM	4145	C	SER	537		A	č
ATOM	4146	Ŏ	SER	537		A	Ö
ATOM	4147	Ň	LYS	538		Ā	N
ATOM	4148	CA	LYS	538	48.729 45.110 68.380 1.00 40.13	Α	C
ATOM	4149	CB	LYS	538		A	C
ATOM	4150	CG	LYS	538		A	C C C
ATOM	4151	CD	LYS	538		A	C
ATOM	4152	CE	LYS	538		A	C
ATOM	4153	NZ	LYS	538		A	N
ATOM	4154	C	LYS	538		A	C
ATOM	4155	0 N	LYS LYS	538		A A	0 N
ATOM	4156 4157	N CA	LYS	539 539		A	Č
ATOM ATOM	4158	CB	LYS	539 539		A	Č
ATOM	4159	CG	LYS	539		A	Č
ATOM	4160	CD	LYS	539		Ä	č
ATOM	4161	CE	LYS	539		A	č
ATOM	4162	NZ	LYS	539		A	Ň
ATOM	4163	С	LYS	539	51. 943 47. 110 65. 849 1. 00 35. 38	Α	C
ATOM	4164	0	LYS	539	52. 699 46. 137 65. 893 1. 00 35. 49	A	0

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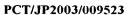
FIG. 4-86										(Continued)
					ГІ	G. 4	- 8 0			
ATOM	4165	N	TYR	540	51.658	47. 747	64.719	1.00 33.00	Α	N
ATOM	4166	CA	TYR	540	52.229	47. 316	63. 452	1.00 30.12	Α	С
ATOM	4167	CB	TYR	540	51. 131	47. 135	62. 397	1.00 28.99	A	C
ATOM	4168	CG	TYR	540	50. 204	45.968	62.630	1.00 29.13	Α	С
ATOM	4169	CD1	TYR	540	49. 109	46.078	63. 488	1.00 28.32	Α	C C
ATOM	4170		TYR	540	48. 254	45.000	63. 699	1.00 27.13	A	С
ATOM	4171		TYR	540	50. 421	44. 748	61.990	1.00 27.62	Α	C
ATOM	4172		TYR	540	49. 576	43.669	62. 196	1.00 26.32	Α	C
ATOM	4173	CZ	TYR	540	48. 495	43.800	63.051	1.00 27.64	A	C
ATOM	4174	OH	TYR	540	47. 661	42. 724	63. 260	1.00 29.67	Α	0
ATOM	4175	C	TYR	540	53. 242	48. 287	62.890	1.00 29.33	Α	С
ATOM	4176	0	TYR	540	53. 130	49.492	63.091	1.00 31.23	Α	0
ATOM	4177	N	PR0	541	54. 270	47. 772	62. 199	1.00 27.71	A	N
ATOM	4178	CD	PRO	541	54.717	46. 383	62.020	1.00 25.95	A	С
ATOM	4179	CA	PR0	541	55. 238	48. 708	61.634	1.00 27.56	A	C
ATOM	4180	CB	PR0	541	56.361	47. 794	61.148	1.00 26.81	Α	С
ATOM	4181	CG	PRO	541	55.662	46. 512	60.867	1.00 25.92	A	C
ATOM	4182	C	PR0	541	54. 463	49. 358	60.500	1.00 27.83	Α	C
ATOM	4183	0	PRO	541	53. 579	48. 727	59. 912	1.00 28.03	Α	0
ATOM	4184	N	LEU	542	54. 763	50.613	60. 200	1.00 27.70	Α	N
ATOM	4185	CA	LEU	542	54. 032	51.307	59. 154	1.00 26.55	A	C
ATOM	4186	CB	LEU	542	53. 220	52.440	59. 791	1.00 26.11	A	C
ATOM	4187	CG	LEU	542	52. 252	53. 292	58. 959	1.00 28.68	A	C
ATOM	4188		LEU	542	51.422	54. 170	59. 898	1.00 29.38	A	C
ATOM	4189		LEU	542	53. 017	54. 165	57. 979	1.00 29.52	Α	C
ATOM	4190	C	LEU	542	54. 924	51.855	58. 042	1.00 26.16	A	C
ATOM	4191	0	LEU	542	55. 943	52. 492	58. 303	1.00 28.00	A	0
ATOM	4192	N	LEU	543	54. 536	51.589	56. 801	1.00 23.70	A	N
ATOM	4193	CA	LEU	543	55. 263	52.097	55. 651	1.00 24.11	A	C
ATOM	4194	CB	LEU	543	55. 595	50. 978	54.660	1.00 24.05	A	C
ATOM	4195		LEU	543	56.080	51.474	53. 289	1.00 22.45	A	C
ATOM	4196		LEU	543	57. 209	52. 487	53. 475	1.00 24.00	A	C
ATOM	4197		LEU	543	56. 537	50. 303		1.00 20.16	A	C
ATOM	4198	C	LEU	543	54. 378	53. 131	54.966	1.00 24.37	A	C
ATOM	4199	0	LEU	543	53. 283	52. 819	54. 511	1.00 25.72	A	0
ATOM	4200	N	LEU	544	54.857	54. 362	54. 896	1.00 24.80	A	N
ATOM	4201		LEU	544	54. 098	55. 436	54. 278	1.00 23.74	A	C
ATOM	4202		LEU	544	54. 424	56. 757	54. 979	1.00 23.92	A	C
ATOM	4203		LEU	544	53.640	58. 003	54. 581	1.00 22.62	A	C
ATOM	4204		LEU	544	52. 157	57. 743	54. 729	1.00 24.91	A	C
ATOM	4205		LEU	544	54.069	59. 166	55. 460	1.00 24.25	A	C
ATOM	4206	. C	LEU	544	54. 403	55. 543	52. 785	1.00 23.24	A	C
ATOM	4207	0	LEU	544	55. 451	56.053	52. 400	1.00 23.44	A	0
ATOM	4208	N CA	ASP	545 545	53.477	55.049	51.962	1.00 21.43	A	N
ATOM	4209		ASP	545 545	53. 595	55. 075 54. 132	50. 508	1.00 20.10	A	C
ATOM	4210 4211	CB CG	ASP ASP	545 545	52.570	54. 132	49. 902 48. 444	1.00 20.20 1.00 20.73	A	C C
ATOM ATOM	4211	0D1		545 545	52. 826 53. 175	53. 848 54. 790	46. 444 47. 699	1.00 20.73	A A	0 .
ATOM	4212	0D1		545 545	53. 175 52. 660	52. 675	48.044	1.00 22.09	A	0
W I OIM	7410	UDL	UOI	0.40	04.000	J4. UIJ	70. V44	1.00 13.31	n	U

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				FIG. 4-87	(Continued)
ATOM ATOM ATOM ATOM	4215 4216 4217 4218	C ASP O ASP N VAL CA VAL CB VAL	545 545 546 546 546	53. 281       56. 499       50. 078       1. 00 20. 41       A         52. 149       56. 949       50. 219       1. 00 21. 14       A         54. 263       57. 201       49. 524       1. 00 19. 56       A         54. 043       58. 591       49. 157       1. 00 20. 20       A         54. 867       59. 511       50. 090       1. 00 20. 60       A	O N C C
ATOM ATOM ATOM ATOM	4220 4221 4222	CG1 VAL CG2 VAL C VAL O VAL	546 546 546	54. 626 60. 966 49. 753 1. 00 20. 01 A 54. 499 59. 239 51. 533 1. 00 21. 16 A 54. 320 59. 032 47. 723 1. 00 20. 28 A 55. 212 58. 513 47. 048 1. 00 22. 79 A	C C O
ATOM ATOM ATOM ATOM ATOM	4224 ( 4225 ( 4226 (	N TYR CA TYR CB TYR CG TYR CD1 TYR	547 547 547 547	53. 524 59. 994 47. 267 1. 00 17. 64 A 53. 702 60. 604 45. 957 1. 00 15. 73 A 52. 653 60. 155 44. 952 1. 00 13. 49 A 52. 969 60. 718 43. 589 1. 00 13. 89 A	N C C C
ATOM ATOM ATOM ATOM	4228 ( 4229 ( 4230 (	CE1 TYR CE2 TYR CE2 TYR CZ TYR	547 547 547 547 547	52. 160       61. 688       43. 006       1. 00 14. 20       A         52. 513       62. 274       41. 801       1. 00 13. 67       A         54. 136       60. 347       42. 921       1. 00 9. 92       A         54. 492       60. 926       41. 726       1. 00 10. 35       A         53. 680       61. 890       41. 167       1. 00 12. 20       A	C C C C
ATOM ATOM ATOM ATOM	4232 (	OH TYR C TYR O TYR	547 547 547 548	53. 680 61. 890 41. 167 1. 00 12. 20 A 54. 036 62. 474 39. 973 1. 00 14. 66 A 53. 522 62. 076 46. 266 1. 00 14. 99 A 54. 490 62. 834 46. 325 1. 00 14. 47 A 52. 265 62. 456 46. 479 1. 00 14. 77 A	C O C O N
ATOM ATOM ATOM ATOM	4236 0 4237 0 4238 0 4239 0	CA ALA CB ALA C ALA D ALA	548 548 548 548	51. 879 63. 806 46. 878 1. 00 12. 10 A 52. 493 64. 109 48. 247 1. 00 9. 78 A 52. 163 64. 950 45. 923 1. 00 11. 87 A 52. 250 66. 094 46. 346 1. 00 12. 24 A	C C C O
ATOM ATOM ATOM ATOM	4242 C 4243 0	CA GLY C GLY C GLY	549 549 549 549	52. 308       64. 660       44. 639       1. 00 13. 59       A         52. 556       65. 734       43. 696       1. 00 13. 20       A         51. 306       66. 578       43. 573       1. 00 13. 15       A         50. 266       66. 182       44. 074       1. 00 12. 86       A	N C C O
ATOM ATOM ATOM ATOM	4246 C 4247 C	CD PRO CA PRO CB PRO	550 550 550 550	51. 365 67. 745 42. 915 1. 00 15. 91 A 52. 533 68. 380 42. 280 1. 00 16. 15 A 50. 174 68. 592 42. 776 1. 00 15. 03 A 50. 693 69. 794 41. 989 1. 00 15. 29 A	N C C C
ATOM ATOM ATOM ATOM ATOM	4248 C 4249 C 4250 O 4251 N 4252 C	PRO CYS	550 550 550 551 551	52. 145       69. 838       42. 325       1. 00 15. 06       A         49. 074       67. 848       42. 026       1. 00 15. 37       A         49. 336       67. 204       41. 012       1. 00 16. 91       A         47. 849       67. 946       42. 532       1. 00 15. 67       A         46. 684       67. 287       41. 944       1. 00 16. 54       A	C C O N
ATOM ATOM ATOM ATOM	4253 C 4254 S 4255 C 4256 0	B CYS G CYS CYS	551 551 551 551	46. 424 67. 796 40. 525 1. 00 16. 53 A 44. 792 67. 314 39. 844 1. 00 18. 29 A 46. 811 65. 766 41. 925 1. 00 16. 83 A	C C S C
ATOM ATOM ATOM ATOM	4257 N 4258 C 4259 C 4260 00	SER A SER B SER	552 552 552 552 552	46. 228 65. 096 41. 087 1. 00 20. 00 A 47. 574 65. 219 42. 856 1. 00 16. 56 A 47. 742 63. 785 42. 933 1. 00 16. 35 A 49. 063 63. 450 43. 613 1. 00 19. 76 A 49. 023 63. 805 44. 987 1. 00 20. 36 A	0 N C C O
ATOM ATOM	4261 C 4262 O	SER	552 552	46. 602 63. 202 43. 760 1. 00 17. 72 A 45. 723 63. 929 44. 243 1. 00 17. 55 A	0 0

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										(Continued)
					FI	G. 4	- 88			(0011011111011)
ATOM	4263	N	GLN	553	46. 632	61.885	43. 926	1.00 17.07	Α	N
ATOM	4264	CA	GLN	553	45. 628	61. 179	44. 699	1.00 16.87	A	Č
ATOM	4265	CB	GLN	553	44. 301	61.090	43. 937	1.00 16.43	A	č
ATOM	4266	CG	GLN	553	43. 249	60. 292	44. 695	1.00 10.43	A	Č
ATOM	4267	CD	GLN	553	41.844	60. 468	44. 163	1.00 13.33	A	Č
ATOM	4268		GLN	553	41.520	60. 019	43. 066	1.00 20.67	A	Ö
ATOM	4269		GLN	553	40. 999	61. 126	44. 944	1.00 20.07	A	N N
ATOM	4270	C	GLN	553	46. 123	59. 781	44. 996	1.00 18.07	A	C
ATOM	4271	ŏ	GLN	553	46. 088	58. 915	44. 129	1.00 18.05	A	0
ATOM	4272	N	LYS	55 <b>4</b>	46. 589	59. 562	46. 221	1.00 18.23	A	N N
ATOM	4273	CA	LYS	554	47. 075	58. 248	46. 620	1.00 19.55	A	C
ATOM	4274	CB	LYS	554	48. 319	58. 387	47. 490	1.00 20.09		C
ATOM	4275	CG	LYS	554	49. 538	58. 887	46. 733	1.00 24.15	A	C
ATOM	4276	CD	LYS	55 <b>4</b>	50.064	57. 840	45. 765	1.00 24.13	A	C
ATOM	4277	CE	LYS	55 <b>4</b>	50. 777	56. 711	46. 503	1.00 23.21	A	C
ATOM	4278	NZ	LYS	55 <b>4</b>	51.472	55. 796	45. 560	1.00 23.89	A	N N
ATOM	4279	C	LYS	554	45. 996	57. 472	47. 374	1.00 23.89	A	
ATOM	4280	Õ	LYS	554 554	46. 108	56. 258	47. 549	1.00 21.48	A	C
ATOM	4281	N	ALA	555	44. 952	58. 176	47. 807	1.00 22.39	A	0 N
ATOM	4282	CA	ALA	555	43.849	57. 555	48. 538	1.00 20.46	A	N C
ATOM	4283	CB	ALA	555	43. 525	58. 376	49. 768	1.00 20.40	A	C
ATOM	4284	CD	ALA	555	42.611	57. 436	47. 643	1.00 18.03	A	C
ATOM	4285	ŏ	ALA	555	41.996	58. 442	47. 285	1.00 21.32	A	C 0
ATOM	4286	Ň	ASP	556	42. 249	56. 208	47. 283	1.00 21.73	A A	N N
ATOM	4287	CA	ASP	556	41.096	55. 981	46.419	1.00 20.04	A	C
ATOM	4288	CB	ASP	556		56. 151	44. 960	1.00 20.04		
ATOM	4289	CG	ASP	556		55. 255	44. 574	1.00 20.02	A A	C C
ATOM	4290		ASP	556		54. 132	45. 115	1.00 19.65	A	0
ATOM	4291		ASP	556		55. 666	43. 723	1.00 21.90	A	0
ATOM	4292	C	ASP	556		54.603	46. 614	1.00 20.18	A	C
ATOM	4293	ŏ	ASP	556		53. 874	47. 523	1.00 19.93	A	Ö
ATOM	4294	Ň	THR	557		54. 246	45. 736	1.00 20.55	A	N N
ATOM	4295	ĊA	THR	557	38. 835	52. 965	45. 820	1.00 22.31	A	C
ATOM	4296	CB	THR	557		53. 154	45. 578	1.00 21.37	A	Č
ATOM	4297	0G1	THR	557		53. 580	44. 224	1.00 21.50	A	ŏ
ATOM	4298		THR	557		54. 201	46. 523	1.00 21.28	A	Č
ATOM	4299	C	THR	557		51.898	44. 826	1.00 23.72	Ä	č
ATOM	4300		THR	557		50. 891	44. 633	1.00 25.32	Ä	ŏ
ATOM	4301	N	VAL	558		52. 105	44. 194	1.00 22.84	A	N
ATOM	4302	CA	VAL	558		51. 143	43. 219	1.00 22.53	A	Č
ATOM	4303	CB	VAL	558		51.802	42. 294	1.00 22.67	A	č
ATOM	4304		VAL	558	42.540 .		41.323	1.00 19.20	A	č
ATOM	4305		VAL	558		52.964	41.547	1.00 21.12	Ä	č
ATOM	4306	C	VAL	558		49. 906	43. 871	1.00 23.92	A	č
ATOM	4307	0	VAL	558		50.005	44. 871	1.00 23.71	Ä.	ŏ
ATOM	4308	N	PHE	559		48.734	43. 312	1.00 25.05	Ä	Ň
ATOM	4309	CA	PHE	559		47.492	43.841	1.00 25.45	Ä	Ċ
ATOM	4310	CB	PHE	559		46.326	43.584	1.00 24.60	Ä	Č
ATOM	4311	CG	PHE	559		44.977	43.808	1.00 24.75	Ä	Č



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									(Continued)	
					FΙ	G. 4	- 89			
ATOM	4312	CD1	PHE	559	42. 192	44. 352	42.799	1.00 25.70	A	С
ATOM	4313		PHE	559	41. 382	44. 352	45.044	1.00 25.27	A	č
ATOM	4314		PHE	559	42.810		43. 021	1.00 28.04	A	č
ATOM	4315		PHE	559	41. 995	43. 125	45. 276	1.00 24.71	A	č
ATOM	4316	CZ	PHE	559	42. 709	42. 507	44. 266	1.00 26.38	A	č
ATOM	4317	C	PHE	559	43. 158	47. 210	43. 170	1.00 26.14	A	č
ATOM	4318	ŏ	PHE	559	43. 250	47. 246	41.943	1.00 27.21	Ä	ŏ
ATOM	4319	Ň	ARG	560	44. 188	46. 912	43. 962	1.00 24.72	Ä	Ň
ATOM	4320	CA	ARG	560	45. 508	46.644	43. 397	1.00 23.52	A	Č
ATOM	4321	CB	ARG	560	46. 398	47. 892	43. 510	1.00 20.68	A	č
ATOM	4322	CG	ARG	560	45. 869	49. 140	42.802	1.00 19.21	A	č
ATOM	4323	CD	ARG	560	46. 885	50. 285	42.869	1.00 17.64	Ä	č
ATOM	4324	NE	ARG	560	46. 269	51.536	43.310	1.00 20.38	A	Ň
ATOM	4325	CZ	ARG	560	45. 637	52. 391	42.515	1.00 20.51	Ä	Č
ATOM	4326	NH1		560	45. 543	52. 149	41.218	1.00 26.51	A	Ň
ATOM	4327		ARG	560	45.061	53. 468	43. 022	1.00 20.25	A	N
ATOM	4328	C	ARG	560	46. 274		43. 980	1.00 24.37	A	Č
ATOM	4329	ŏ	ARG	560	46. 112	45. 081	45. 145	1.00 24.84	A	ŏ
ATOM	4330	Ň	LEU	561	47.111	44. 856	43. 136	1.00 23.62	A	Ň
ATOM	4331	CA	LEU	561	47. 968	43. 740	43.511	1.00 20.95	A	Ċ
ATOM	4332	CB	LEU	561	47.680	42. 523	42.635	1.00 18.87	A	č
ATOM	4333	CG	LEU	561	46. 283	41.916	42.773	1.00 20.60	Ä	č
ATOM	4334		LEU	561	46. 139	40. 749	41.803	1.00 19.75	A	č
ATOM	4335		LEU	561	46.045	41.460	44. 203	1.00 17.53	A	č
ATOM	4336	Č	LEU	561	49. 380	44. 255	43. 246	1.00 20.00	A	č
<b>ATOM</b>	4337	0	LEU	561	49. 894	44. 152	42. 133	1.00 20.19	A	Ö
<b>ATOM</b>	4338	N	ASN	562	49.999	44. 822	44. 274	1.00 18.97	Ä	Ň
ATOM	4339	CA	ASN	562	51.335	45. 392	44. 142	1.00 18.20	Ä	Č
<b>ATOM</b>	4340	CB	ASN	562	51.197	46.907	44. 028	1.00 16.72	Ä	č
ATOM	4341	CG	ASN	562	50. 364	47. 491	45. 148	1.00 17.45	A	č
ATOM	4342	0D1		562	49.881	48.610	45.054	1.00 19.63	Ä	ŏ
ATOM	4343	ND2	ASN	562	50. 195	46.729	46. 223	1.00 18.39	A	Ň
ATOM	4344	C	ASN	562	52. 291	45.035		1.00 18.48	Ä	Ĉ
ATOM	4345	0	ASN	562	52.055	44.098	46.056	1.00 19.79	Ä	ŏ
ATOM	4346	N	TRP	563	53. 375	45.793	45.400	1.00 17.98	Ä	Ň
ATOM	4347	CA	TRP	563	54.366	45.548	46. 434	1.00 17.62	Ä	Ċ
ATOM	4348	CB	TRP	563	55. 538	46.537	46.290	1.00 16.04	Ä	č
ATOM	4349	CG	TRP	563	56.741	46.249	47.178	1.00 15.76	Ā	Č
ATOM	4350	CD2	TRP	563	57. 474		47.968	1.00 13.80	Ā	Č
ATOM	4351	CE2	TRP	563	58. 526		48.602	1.00 11.13	Ā	Č
ATOM	4352		TRP	563	57.341		48.198	1.00 13.46	Ä	č
ATOM	4353	CD1	TRP	563	57. 367		47.361	1.00 12.65	A	· Č
ATOM	4354	NE 1	TRP	563	58. 440		48. 217	1.00 11.34	A	N
ATOM	4355	CZ2	TRP	563	59.439		49. 453	1.00 14.40	A	Ċ
ATOM	4356	CZ3		563	58. 252		49.046	1.00 16.29	Ā	č
ATOM	4357	CH2		563	59. 291	48.476	49.664	1.00 14.18	A	Ċ
ATOM	4358	C	TRP	563	53.728		47.809	1.00 17.48	Α	Ċ
ATOM	4359	0	TRP	563	54.048		48.720	1.00 18.93	Α	0
ATOM	4360	N	ALA	564	52.813	46.620	47. 953	1.00 16.80	Α	N

ATOM

4409 0 THR

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					FΙ	G. 4	- 9 0			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM	4361 4362 4363 4364 4365 4366 4367	CA CB C O N CA CB	ALA ALA ALA THR THR THR	564 564 564 565 565 565	52. 151 51. 248 51. 341 51. 322 50. 676 49. 870 49. 368	46. 838 48. 068 45. 616 45. 256 44. 983 43. 801 43. 131	49. 232 49. 153 49. 655 50. 834 48. 691 48. 977 47. 689	1.00 17.11 1.00 16.72 1.00 17.89 1.00 15.94 1.00 18.77 1.00 19.59 1.00 20.01	A A A A A	C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4368 4369 4370 4371 4372 4373 4374 4375	OG1 CG2 C O N CA CB CG	THR THR THR TYR TYR TYR TYR TYR	565 565 565 565 566 566 566	48. 606 48. 496 50. 718 50. 290 51. 924 52. 848 54. 029 55. 369	44. 069 41. 922 42. 793 42. 252 42. 548 41. 615 41. 324 41. 218	46. 922 48. 027 49. 739 50. 760 49. 234 49. 864 48. 923 49. 616	1.00 19.76 1.00 19.34 1.00 21.27 1.00 22.29 1.00 22.25 1.00 23.40 1.00 25.18 1.00 25.40	A A A A A A	O C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4376 4377 4378 4379 4380 4381 4382	CD1 CE1 CD2 CE2 CZ OH C	TYR TYR TYR TYR TYR TYR TYR TYR	566 566 566 566 566 566	56. 297 57. 513 55. 690 56. 903 57. 809 58. 997 53. 369	42. 262 42. 196 40. 101 40. 023 41. 074 40. 998 42. 116	49. 547 50. 226 50. 382 51. 073 50. 991 51. 688 51. 212	1. 00 25. 62 1. 00 26. 85 1. 00 26. 99 1. 00 29. 74 1. 00 30. 16 1. 00 32. 61 1. 00 23. 06	A A A A A A	C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	4383 4384 4385 4386 4387 4388 4389	CD2	TYR LEU LEU LEU LEU LEU	566 567 567 567 567 567	53. 458 53. 716 54. 237 54. 588 55. 717 55. 833 57. 038	41. 350 43. 396 43. 949 45. 429 45. 769 47. 279 45. 158	52. 170 51. 288 52. 532 52. 359 51. 378 51. 263 51. 850	1.00 21.96 1.00 23.28 1.00 24.50 1.00 22.74 1.00 23.15 1.00 20.37 1.00 21.42	A A A A A	0 N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4390 4391 4392 4393 4394 4395 4396 4397	C N CA CB C	LEU LEU ALA ALA ALA ALA SER	567 568 568 568 568 568 568 569	53. 243 53. 635 51. 955 50. 930 49. 684 50. 584 50. 483 50. 417	43. 786 43. 595 43. 857 43. 712 44. 481 42. 242 41. 782 41. 506	53. 675 54. 824 53. 361 54. 383 53. 984 54. 606 55. 748 53. 509	1.00 26.32 1.00 27.44 1.00 26.96 1.00 27.44 1.00 26.54 1.00 29.12 1.00 28.80 1.00 28.58	A A A A A A	C O N C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4398 4399 4400 4401 4402 4403 4404	CA CB OG C O N CA	SER SER SER SER SER THR THR	569 569 569 569 569 570	50. 417 50. 062 49. 750 49. 420 51. 110 50. 800 52. 350 53. 420	40. 094 39. 553 38. 174 39. 204 38. 427 39. 311 38. 483	53. 505 53. 586 52. 191 52. 247 54. 236 55. 133 53. 781 54. 314	1.00 28.38 1.00 28.85 1.00 30.69 1.00 27.43 1.00 28.44 1.00 27.24 1.00 27.02	A A A A A A	N C C O C O N C
ATOM ATOM ATOM ATOM	4405 4406 4407 4408	CB OG1 CG2	THR THR	570 570 570 570	53. 420 54. 410 53. 749 55. 611 54. 203	38. 094 37. 250 37. 369 39. 110	53. 199 52. 248 53. 774 55. 459	1.00 26.90 1.00 27.63 1.00 23.88 1.00 27.34	A A A A	C O C

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54. 362 38. 496 56. 512 1. 00 30. 01 A 0

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FIG. 4-91										(Continued)
					ГІ	G. 4	- 91			
ATOM	4410	N	GLU	571	54. 686	40. 329	55. 253	1.00 26.71	Α	N
ATOM	4411	CA	GLU	571	55. 480	41.020	56. 259	1.00 25.23	A	C
ATOM	4412	CB	GLU	571	56. 402	42.040	55. 583	1.00 24.64	A	C
ATOM	4413	CG	GLU	571	57. 287	41.472	54. 473	1.00 25.43	A	C
ATOM ATOM	4414	CD	GLU GLU	571	58. 238	40. 392	54. 966	1.00 27.45	A	C
ATOM	4415 4416		GLU	571 571	58. 582 58. 656	40. 421 39. 527	56. 164	1.00 28.11	A	0
ATOM	4417	C	GLU	571	54. 643	41. 715	54. 158 57. 329	1.00 27.18 1.00 24.50	A	0
ATOM	4418	ŏ	GLU	571	55. 188	42. 368	58. 213	1.00 24.50	A A	C 0
ATOM	4419	Ň	ASN	572	53. 324	41. 576	57. 247	1.00 24.29	A	N N
ATOM	4420	CA	ASN	572	52. 425	42. 191	58. 223	1.00 24.33	A	C
ATOM	4421	CB	ASN	572	52.557	41.486	59. 569	1.00 25.44	Ä	č
ATOM	4422	CG	ASN	572	52. 139	40.033	59. 507	1.00 29.03	Ä	č
ATOM	4423	0D1	ASN	572	52.711	39. 187	60. 192	1.00 30.88	Ä	Ö
ATOM	4424	ND2	ASN	572	51.128	39. 734	58.694	1.00 29.67	Ä	Ň
ATOM	4425	C	ASN	572	52.683	43.681	58. 419	1.00 25.32	Α	C
ATOM	4426	0	ASN	572	52.642	44.178	59. 545	1.00 25.55	Α	0
ATOM	4427	N	ILE	573	52. 944	44. 387	57. 321	1.00 25.48	Α	N
ATOM	4428	CA	ILE	573	53. 208	45. 824	57.360	1.00 24.87	Α	C
ATOM	4429	CB	ILE	573	54: 396	46. 198	56. 446	1.00 24.59	Α	С
ATOM	4430	CG2		573	54. 715	47. 669	56. 584	1.00 22.90	Α	С
ATOM	4431	CG1		573	55. 622	45. 365	56. 800	1.00 25.08	A	C
ATOM ATOM	4432	CD1	ILE	573	56. 805	45. 636	55. 900	1.00 25.36	A	C
ATOM	4433 4434	C 0	ILE ILE	573 572	51.992	46. 621	56.875	1.00 25.22	A	C
ATOM	4435	N	ILE	573 574	51.353 51.681	46. 249 47. 718	55.891	1.00 24.86	A	0
ATOM	4436	CA	ILE	574	50. 557	48. 555	57. 557 57. 159	1.00 24.59 1.00 26.14	A	N
ATOM	4437	CB	ILE	574	49. 926	49. 297	58. 359	1.00 25.88	A A	C C
ATOM	4438		ILE	574	48. 798	50. 190	57.874	1.00 26.06	A	C
ATOM	4439		ILE	574	49. 399	48. 304	59. 386	1.00 27.36	A	Č
ATOM	4440	CD1	ILE	574	48. 794	48. 968	60.607	1.00 29.19	A	Č
ATOM	4441	С	ILE	574	51.064	49.619	56. 191	1.00 27.12	Ä	č
ATOM	4442	0	ILE	574	51.799	50.524	56. 591	1.00 28.97	Ä	ŏ
ATOM	4443	N	VAL	575	50.683	49.521	54.924	1.00 25.92	A	N
ATOM	4444	CA	VAL	575	51.128	50.517	53.962	1.00 24.87	Α	С
ATOM	4445	CB	VAL	575		49.904	52.569	1.00 24.76	Α	C
ATOM	4446		VAL	575	51.973	50.966	51.644	1.00 20.17	Α	C
ATOM	4447		VAL	575		48. 707	52.690	1.00 22.12	A	C
ATOM	4448	C	VAL	575		51.585	53. 837	1.00 25.21	A	C
ATOM	4449	0 N	VAL	575		51.312	53. 405	1.00 25.63	A	0
ATOM ATOM	4450 4451	N CA	ALA ALA	576 576		52. 804	54. 216	1.00 23.75	A	N
ATOM	4452	CB	ALA	576 576		53. 893 54. 477	54. 152 55. 540	1.00 23.56	A	C
ATOM	4453	CD	ALA	576		54. 988	55. 540 53. 180	1. 00 23. 43 1. 00 24. 06	A	C
ATOM	4454	Õ	ALA	576		55. 139	52. 860	1.00 24.00	A A	C 0
ATOM	4455	Ň	SER	577		55. 740	52.710	1.00 24.49	A	N
ATOM	4456	CA	SER	577		56. 852	51. 796	1.00 23.11	A	C
ATOM	4457	CB	SER	577		56. 428	50. 362	1.00 23.06	A	Č
ATOM	4458	0G	SER	577		55. 475	49.921	1.00 22.88	Ä	Ö

										(Continued)
					FI	G. 4	- 92			
ATOM	4459	С	SER	577	48. 149	57.947	52. 248	1.00 22.90	Α	С
ATOM	4460	ŏ	SER	577	47.075	57.662	52. 768	1.00 24.22	A	Ö
ATOM	4461	Ň	PHE	578	48.546	59.196	52.046	1.00 23.49	A	N
ATOM	4462	CA	PHE	578	47.748	60.337	52.479	1.00 21.77	A	Ċ
ATOM	4463	CB	PHE	578	48.313	60.829	53.804	1.00 21.41	A	Č
ATOM	4464	CG	PHE	578	47.585	62.005	54.383	1.00 22.79	A	Ċ
ATOM	4465		PHE	578	46.429	61.820	55. 144	1.00 20.60	A	Č
ATOM	4466		PHE	578	48.080	63.291	54. 209	1.00 19.79	A	
ATOM	4467	CE1	PHE	578	45. 783	62.901	55.730	1.00 21.26	Ä	Ċ
ATOM	4468	CE2	PHE	578	47.441	64.381	54.790	1.00 20.94	A	С
ATOM	4469	CZ	PHE	578	46.288	64.186	55.556	1.00 20.70	Α	C C C C
ATOM	4470	C	PHE	578	47. 723	61.502	51.480	1.00 21.14	Α	C
ATOM	4471	0	PHE	578	48.766	61.909	50.973	1.00 21.08	Α	0
ATOM	4472	N	ASP	579	46.533	62.041	51.212	1.00 19.89	Α	N
ATOM	4473	CA	ASP	579	46.389	63.173	50.302	1.00 18.01	Α	C
ATOM	4474	CB	ASP	579	45. 191	62.985	49.371	1.00 17.01	Α	<b>C</b>
ATOM	4475	CG	ASP	579	45. 334	61.777	48.455	1.00 21.86	Α	C
ATOM	4476		ASP	579	46. 424	61.583	47.873	1.00 22.87	A	0
ATOM	4477		ASP	579	44. 342	61.024	48. 299	1.00 23.17	Α	0
ATOM	4478	C	ASP	579	46. 211	64.474	51.092	1.00 18.10	Α	C
ATOM	4479	0	ASP	579	45. 103	64.823	51.493	1.00 20.42	Α	0
ATOM	4480	N	GLY	580	47. 306	65. 189	51.313	1.00 17.22	Α	N
ATOM	4481	CA	GLY	580	47. 238	66. 439	52.044	1.00 15.14	Α	С
ATOM	4482	C	GLY	580	47. 065	67.610	51.098	1.00 16.53	A	C
ATOM	4483	0	GLY	580	46. 544	67.462	49. 993	1.00 17.18	A	0
ATOM	4484	N	ARG	581	47. 495	68. 786	51. 528	1.00 15.90	A	N
ATOM	4485	CA	ARG	581	47. 377	69. 970	50. 701	1.00 15.52	A	C
ATOM ATOM	4486	CB CG	ARG	581	47. 956	71.172	51.444	1.00 16.17	A	C
ATOM	4487 4488	CD	ARG ARG	581 581	47.072	71.645	52. 585	1.00 16.05	A	C
ATOM	4489	NE	ARG	581 581	47. 756 48. 617	72.653 71.990	53. 467 54. 441	1.00 14.87	A	C
ATOM	4490	CZ	ARG	581	49. 321	72.624		1.00 18.25	A	N
ATOM	4491	NH1	ARG	581	49. 268	73. 952	55. 375 55. 463	1.00 19.44	A	C
ATOM	4492		ARG	581	50.075	71.933	56. 224	1.00 20.41 1.00 15.76	A	N
ATOM	4493	C	ARG	581	48. 107	69.742	49. 386	1.00 13.70	A	N C
ATOM	4494	ŏ	ARG	581	49. 193	69. 158	49. 357	1.00 17.73	A A	0
ATOM	4495	Ň	GLY	582	47. 495	70. 192	48. 295	1.00 11.45	A	N N
ATOM	4496	CA	GLY	582	48. 094	70.022	46. 987	1.00 17.63	A	. <b>C</b>
ATOM	4497	C	GLY	582	47. 511	68. 842	46. 231	1.00 18.54	A	C
ATOM	4498	Ŏ	GLY	582	47. 673	68. 757	45. 017	1.00 18.99	A	Ŏ
ATOM	4499	N	SER	583	46. 842	67. 923	46. 925	1.00 18.00	A	N
ATOM	4500	CA	SER	583	46. 258	66. 765	46. 247	1.00 18.46	Ä	Č
ATOM	4501	CB	SER	583	45.842	65.700	47. 269	1.00 18.34	Ä	Č
ATOM	4502	0G	SER	583	45.058	66. 253	48. 303	1.00 19.12	Ä	Ŏ
ATOM	4503	C	SER	583	45.068	67. 218	45. 392	1.00 18.03	Ä	č
ATOM	4504	0	SER	583	44.601	68. 344	45.536	1.00 17.42	Ā	0
ATOM	4505	N	GLY	584	44. 570	66.355	44.510	1.00 17.84	Α	N
ATOM	4506	CA	GLY	584	43. 481	66.779	43.637	1.00 19.22	Α	С
ATOM	4507	C	GLY	584	42.052	66. 293	43.827	1.00 19.49	Α	С

					F I	G. 4	- 93				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4508 4509 4510 4511 4512 4513 4514 4515 4516 4517	N CA CB CC CD CE CD CZ CZ OH	TYR TYR TYR TYR TYR TYR TYR TYR	585 585 585 585 585 585 585 585 585 585	41. 724 41. 191 39. 782 39. 673 40. 578 40. 439 41. 300 41. 606 42. 476 42. 313 43. 150	65. 570 66. 735 66. 362 64. 859 64. 401 64. 533 63. 490 63. 100 63. 626 63. 232	44. 767 42. 917 42. 906 42. 663 41. 550 40. 260 39. 235 41. 789 40. 769 39. 497 38. 481	1.00 19.76 1.00 18.53 1.00 18.57 1.00 18.83 1.00 19.48 1.00 18.11 1.00 19.81 1.00 17.71 1.00 18.76 1.00 20.70	A A A A A A A	0 N C C C C C C	
ATOM ATOM	4519 4520	C 0	TYR TYR		38. 997 38. 046	66. 751 66. 067	44. 152 44. 521	1.00 18.81 1.00 17.85	A A	<b>O</b>	
ATOM	4521	N	GLN	586	39. 382	67.861	44. 783	1.00 20.25	A	N N	
ATOM	4522	CA	GLN	586	38.708	68. 345	45. 986	1.00 20.04	Α	C	
ATOM ATOM	4523 4524	CB CG	GLN GLN	586 586	39. 455 39. 770	67. 886 66. 412	47. 233 47. 279	1.00 20.09	A	C	
ATOM	4525	CD	GLN	586	40. 781	66. 095	48. 363	1.00 20.60 1.00 24.77	A A	C C	
ATOM	4526	0E1	GLN	586	40. 441	66.029	49. 548	1.00 23.60	A	Ö	
ATOM	4527		GLN	586	42.044	65. 919	47. 962	1.00 25.12	Α	N	
ATOM ATOM	4528 4529	C 0	GLN GLN	586 586	38. 619 38. 424	69.869	46.024	1.00 22.06	A	C	
ATOM	4530	N	GLY	587	38. 783	70. 455 70. 518	47. 092 44. 877	1.00 23.83 1.00 21.79	A	0	
ATOM	4531	CA	GLY	587	38. 707	71.969	44. 853	1.00 21.79	A A	N C	
ATOM	4532	C	GLY	587	40.073	72.623	44. 883	1.00 21.56	A	Č	
ATOM	4533	0	GLY	587	41.033	72.035	45.364	1.00 23.11	Ä	Ö	
ATOM	4534	N	ASP	588	40. 154	73.856	44. 397	1.00 21.25	Α	N	
ATOM ATOM	4535 4536	CA CB	ASP ASP	588 588	41.415	74. 580	44. 339	1.00 22.09	A	C	
ATOM	4537	CG	ASP	588	41.287 40.944	75. 763 75. 340	43. 382	1.00 22.35	A	C	
ATOM	4538		ASP	588	40.465	76. 213	41.965 41.211	1.00 25.14 1.00 25.77	A	C 0	
ATOM	4539		ASP	588	41.157	74. 155	41.599	1.00 24.41	A A	0	
ATOM	4540	C	ASP	588	41.955	75.079	45.675	1.00 23.08	A	Č	
ATOM	4541	0	ASP	588		75.471	45.762	1.00 22.71	Ä	Õ	
ATOM	4542	N	LYS	589		75.086	46. 716	1.00 23.77	Α	N	
ATOM ATOM	4543 4544	CA CB	LYS LYS	589 589		75. 562	47. 998	1.00 22.97	A	C	
ATOM	4545	CG	LYS	589		75. 616 76. 173	49. 037 50. 365	1.00 24.26	A	C	
ATOM	4546	CD	LYS	589		76. 141	51. 439	1.00 29.68 1.00 35.08	A	C C	
ATOM	4547	CE	LYS	589		76. 638	52. 784	1.00 36.09	A A	C	
ATOM	4548	NZ	LYS	589		76.464	53. 881	1. 00 36. 83	A	N	
ATOM	4549	C	LYS	589	42.705	74.611	48.468	1.00 22.93	Ä	Ċ	
ATOM	4550	0	LYS	589		75.032	49.033	1.00 23.71	Α	0	
ATOM	4551	N	ILE	590		73. 326	48. 217	1.00 21.82	A	N	
ATOM ATOM	4552 4553	CA CB	ILE ILE	590 590		72. 302	48. 607	1.00 21.76	A	C	
ATOM	4554	CG2		590 590		70. 956 69. 841	48. 846	1.00 20.55	A	C	
ATOM	4555	CG1		590		71. 025	48. 934 50. 126	1.00 19.40 1.00 21.94	A	C	
ATOM	4556	CD1		590		69. 720	50. 478	1. 00 21. 34	A A	C	
										-	

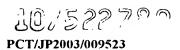
						(Continued)
					FIG. 4-94	(Continuation)
ATOM	4557	C	ILE	590	44. 537 72. 093 47. 562 1. 00 22. 32 A	C
ATOM	4558	0	ILE	590	45. 711 71. 960 47. 901 1. 00 23. 51 A	O
ATOM	4559	N	MET	591	44. 157 72. 071 46. 291 1. 00 21. 59 A	N
ATOM	4560	CA	MET	591	45.127 71.846 45.232 1.00 21.59 A	C
ATOM	4561	CB	MET	591	44.406 71.567 43.917 1.00 21.80 A	C
ATOM	4562	CG	MET	591	45. 309 71. 000 42. 838 1. 00 21. 85 A	C
ATOM	4563	SD	MET	591	44. 403 70. 746 41. 309 1. 00 22. 76 A	S
ATOM	4564	CE	MET	591	44. 237 72. 436 40. 732 1. 00 22. 84 A 46. 112 72. 997 45. 051 1. 00 21. 43 A	C
ATOM	4565	C	MET	591		C
ATOM	4566	O	MET	591	47. 289 72. 771 44. 791 1. 00 19. 25 A	O
ATOM	4567	N	HIS	592	45. 636 74. 228 45. 200 1. 00 21. 21 A	N
ATOM	4568	CA	HIS	592	46. 502 75. 386 45. 035 1. 00 21. 43 A	C
ATOM	4569	CB	HIS	592	45. 713 76. 560 44. 455 1. 00 22. 32 A	C
ATOM	4570	CG	HIS	592	45. 296 76. 361 43. 032 1. 00 24. 65 A	C
ATOM ATOM	4571 4572	ND1	HIS HIS	592 592	45. 604 75. 390 42. 139 1. 00 26. 25 A 44. 471 77. 243 42. 368 1. 00 25. 75 A	C N
ATOM ATOM ATOM	4573 4574	NE2	HIS	592 592	44. 289 76. 825 41. 128 1. 00 25. 99 A 44. 965 75. 703 40. 962 1. 00 25. 78 A	C N
ATOM ATOM	4575 4576 4577	C O N	HIS HIS ALA	592 592 593	47. 197 75. 817 46. 319 1. 00 21. 38 A 47. 842 76. 865 46. 362 1. 00 20. 84 A 47. 076 75. 012 47. 367 1. 00 21. 76 A	C O N
ATOM	4578	CA	ALA	593	47. 732 75. 349 48. 628 1. 00 20. 43 A 47. 360 74. 349 49. 710 1. 00 18. 24 A	C
ATOM	4579	CB	ALA	593		C
ATOM	4580	C	ALA	593	49. 241 75. 361 48. 427 1. 00 19. 92 A	C
ATOM	4581	0	ALA	593	49. 940 76. 126 49. 081 1. 00 21. 91 A	0
ATOM ATOM ATOM	4582 4583 4584	N CA CB	ILE ILE ILE	594 594 594	49. 736 74. 522 47. 518 1. 00 19. 47 A 51. 176 74. 446 47. 248 1. 00 20. 49 A 51. 617 73. 021 46. 816 1. 00 19. 36 A	N C
ATOM ATOM	4585 4586	CG2		594 594	51. 617 73. 021 46. 816 1. 00 19. 36 A 51. 467 72. 051 47. 966 1. 00 19. 38 A 50. 814 72. 581 45. 590 1. 00 21. 33 A	C C C
ATOM	4587	CD1	ILE	594	50. 951 71. 106 45. 243 1. 00 22. 55 A 51. 658 75. 410 46. 169 1. 00 19. 88 A	C
ATOM	4588	C	ILE	594		C
ATOM	4589	0	ILE	594	52. 849 75. 434 45. 854 1. 00 17. 79 A 50. 746 76. 200 45. 606 1. 00 20. 03 A	O
ATOM	4590	N	ASN	595		N
ATOM ATOM ATOM	4591 4592 4593	CA CB CG	ASN ASN ASN	595 595 595	51. 119 77. 137 44. 547 1. 00 21. 76 A 49. 977 78. 114 44. 265 1. 00 20. 68 A 50. 300 79. 072 43. 128 1. 00 21. 80 A	C C
ATOM ATOM	4594 4595	0D1		595 595	50. 300 79. 072 43. 128 1. 00 21. 80 A 50. 640 78. 652 42. 024 1. 00 22. 78 A 50. 191 80. 364 43. 394 1. 00 22. 74 A	C O N
ATOM	4596	C	ASN	595	52. 395 77. 921 44. 860 1. 00 22. 25 A 52. 442 78. 688 45. 824 1. 00 22. 44 A	C
ATOM	4597	0	ASN	595		O
ATOM	4598	N	ARG	596	53. 421 77. 715 44. 031 1. 00 22. 52 A	N
ATOM	4599	CA	ARG	596	54. 726 78. 378 44. 171 1. 00 22. 41 A	C
ATOM	4600	CB	ARG	596	54. 550 79. 898 44. 141 1. 00 21. 28 A	C
ATOM	4601	CG	ARG	596	53. 894 80. 426 42. 880 1. 00 21. 31 A	C
ATOM	4602	CD	ARG	596	53. 398 81. 856 43. 096 1. 00 22. 01 A	C
ATOM	4603	NE	ARG	596	54. 479 82. 760 43. 482 1. 00 20. 88 A	N
ATOM	4604	CZ	ARG	596	55. 467 83. 112 42. 671 1. 00 21. 35 A	C
ATOM	4605	NH1		596	55. 498 82. 635 41. 431 1. 00 22. 62 A	N

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FIG. 4-95											
ATOM	4606	NH2	ARG	596	56. 427	83. 924	43. 096	1.00 19.92	A	N	
ATOM	4607	C	ARG	596	55. 492	77. 982	45. 440	1.00 21.53	A	Č	
ATOM	4608	ŏ	ARG	596	56. 482	78. 611	45. 804	1.00 20.59	A	ŏ	
ATOM	4609	Ň	ARG	597	55. 046	76. 930	46. 107	1.00 21.66	A	Ň	
ATOM	4610	CA	ARG	597	55. 705	76.512	47. 331	1.00 21.98	A	Ċ	
ATOM	4611	CB	ARG	597	54. 943		48. 539	1.00 23.55	Ä	č	
ATOM	4612	CG	ARG	597	55. 184		48. 776	1.00 28.20	A	č	
ATOM	4613	CD	ARG	597	56.611	78.813	49. 264	1.00 30.86	Ä	č	
ATOM	4614	NE	ARG	597	56. 891	80. 239	49.414	1.00 34.81	A	Ň	
ATOM	4615	CZ	ARG	597	57. 074		48. 401	1.00 36.01	A	Č	
ATOM	4616		ARG	597	57.011	80.670	47. 142	1.00 33.57	A	Ň	
ATOM	4617		ARG	597	57. 326		48. 650	1.00 37.36	Ä	N	
ATOM	4618	C	ARG	597	55. 869	75.011	47. 458	1.00 20.79	A	Č	
ATOM	4619	Ŏ	ARG	597	55. 523	74. 423	48. 487	1.00 20.19	A	ŏ	
ATOM	4620	Ň	LEU	598	56. 400	74. 398	46. 404	1.00 19.44	A	Ň	
ATOM	4621	ĊA	LEU	598	56. 649	72.963	46. 387	1.00 18.48	A	Č	
ATOM	4622	CB	LEU	598	57. 142	72. 545	45.003	1.00 18.20	A	č	
ATOM	4623	CG	LEU	598	56. 119	72.007	43. 994	1.00 19.27	A	č	
ATOM	4624		LEU	598	54. 800	72. 731	44. 107	1.00 19.49	A	Č	
ATOM	4625		LEU	598	56. 691	72. 135	42. 595	1.00 18.24	A	Č	
ATOM	4626	C	LEU	598	57. 692	72.617	47. 450	1.00 19.10	A	č	
ATOM	4627	Ŏ	LEU	598	58. 644	73. 363	47. 679	1.00 19.27	A	Ö	
ATOM	4628	Ň	GLY	599	57. 506	71.485	48. 108	1.00 13.21	A	N N	
ATOM	4629	CA	GLY	599	58. 440	71.090	49. 138	1.00 20.34	A	Č	
ATOM	4630	C	GLY	599	58. 055	71.622	50. 508	1.00 21.76	A	č	
ATOM	4631	Ŏ	GLY	599	58. 882	71.640	51.422	1.00 23.58	A	ŏ	
ATOM	4632	Ň	THR	600	56.811	72.061	50.666	1.00 21.02	A	N	
ATOM	4633	ĊA	THR	600	56. 381	72.578	51.958	1.00 21.02	A	Č	
ATOM	4634	CB	THR	600	56. 039	74. 082	51.874	1.00 21.28	A	č	
ATOM	4635	0G1	THR	600	54. 887	74. 271	51.052	1.00 25.68	A	Õ	
ATOM	4636		THR	600	57. 192	74.856	51. 264	1.00 21.23	A	Č	
ATOM	4637	C	THR	600	55. 201	71.810	52. 557	1.00 21.28	A	č	
ATOM	4638	ŏ	THR	600	55. 386	70.724		1.00 22.42	A	ŏ	
ATOM	4639	Ň	PHE	601	53. 993	72.356	52. 446	1.00 21.18	A	N	
ATOM	4640	CA	PHE	601	52. 809	71.721	53. 022	1.00 22.09	A	Č	
ATOM	4641	CB	PHE	601	51.540	72. 498	52.649	1.00 24.93	A	Č	
ATOM	4642		PHE	601	51.556	73.935	53. 077	1.00 26.21	Ä	č	
ATOM	4643		PHE	601	51.052	74. 923	52. 236	1.00 28.07	Ä	č	
ATOM	4644		PHE	601	52. 105	74. 308	54. 299	1.00 26.83	A	č	
ATOM	4645		PHE	601	51.100	76. 271	52. 603	1.00 29.10	A	č	
ATOM	4646		PHE	601	52. 160	75. 650	54. 680	1.00 28.02	Ä	č	
ATOM	4647	CZ	PHE	601	51.658	76.636	53. 830	1.00 28.61	A	č	
ATOM	4648	Č	PHE	601	52.623	70. 265	52. 635	1.00 22.45	Ä	č	
ATOM	4649	Ö	PHE	601	52. 235	69. 451	53. 470	1.00 22.89	A	ŏ	
ATOM	4650	Ň	GLU	602	52.884	69. 931	51.374	1.00 22.76	A	Ň	
ATOM	4651	CA	GLU	602	52.712	68. 556	50. 931	1.00 21.82	A	Ċ	
ATOM	4652	CB	GLU	602	52. 956	68.418	49. 422	1.00 22.43	Ä	č	
ATOM	4653	CG	GLU	602	54. 396	68.559	48. 974	1.00 27.44	A	č	
ATOM	4654	CD	GLU	602	54.872	70.002	48.893	1.00 29.71	A	Č	



					F	I G. 4	1 - 96			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4663 4664 4665 4666 4667 4668 4669 4670	OE2 C O N CA CG1 CG2 C O N CA CB CCB CCD	GLU GLU GLU VAL VAL VAL VAL GLU GLU GLU GLU	602 602 602 603 603 603 603 603 604 604 604 604	54. 75 55. 379 53. 663 53. 380 54. 777 57. 159 58. 169 57. 603 55. 373 55. 009 54. 594 54. 322 55. 572 56. 449	1 70. 74 70. 39 67. 65 66. 47 7 68. 22 67. 46 68. 13 67. 36 8 67. 36 8 67. 35 6 68. 48 6 68. 48 6 68. 48 6 69. 96 70. 808	3 49.893 2 47.823 7 51.698 3 51.899 9 52.146 8 52.897 3 52.800 5 53.649 3 51.335 0 54.364 5 54.951 1 54.951 3 56.341 4 56.770	2 1.00 31.46 3 1.00 21.67 9 1.00 22.33 6 1.00 20.78 7 1.00 20.76 9 1.00 15.00 1.00 15.21 1.00 21.85 1.00 24.70 1.00 27.84 1.00 30.83	A A A A A A A A A	0 0 0 0 N C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4671 4672 4673 4674 4675 4676 4677	0E1		604 604 604 604 605 605 605	50. 449 57. 505 56. 083 53. 349 53. 270 52. 381 51. 151 50. 144 49. 576	70. 989 69. 368 67. 669 66. 909 67. 786 67. 021 67. 436	58. 328 58. 773 56. 553 57. 517 55. 650 55. 785 54. 713	1.00 46.30 1.00 45.85 1.00 27.28 1.00 28.68 1.00 25.92 1.00 25.72 1.00 24.61	A A A A A A	C 0 0 C 0 N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4679 (4680 (4681 (4683 M4684 (4685 (4685 (4685 (4686 (	0D1	ASP ASP ASP ASP GLN GLN GLN GLN	605 605 605 605 606 606 606	48. 677 50. 036 51. 379 50. 646 52. 394 52. 704 53. 788	68. 832 69. 267 69. 499 65. 515 64. 779 65. 051 63. 627	54. 215 55. 914 55. 783 56. 439 55. 063 55. 056 54. 026	1.00 23.36 1.00 23.15 1.00 21.27 1.00 26.18 1.00 28.35 1.00 26.16 1.00 25.29 1.00 24.18	A A A A A A	C 0 0 C 0 N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4687 C 4688 C 4689 N 4690 C 4691 C 4692 N 4693 C	CD DE1 DE2 C CA	GLN GLN GLN GLN GLN ILE ILE ILE	606 606 606 606 607 607 607	53. 305 52. 206 52. 373 51. 075 53. 207 52. 838 54. 059 54. 607 55. 639	63. 332 62. 321 61. 122 62. 801 63. 268 62. 238 64. 129 63. 915 65. 002	52. 596 52. 330 52. 560 51. 840 56. 447 57. 002 57. 001 58. 337 58. 702	1.00 24.92 1.00 24.81 1.00 25.31 1.00 25.44 1.00 25.47 1.00 25.15 1.00 26.84 1.00 28.30	A A A A A	C O N C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4695 C 4696 C	G2 G1 D1 A (B	ILE ILE	607 607 607 607 607 608 608 608	56. 165 56. 789 57. 796 53. 470 53. 359 52. 619 51. 508 50. 705 49. 578	64. 778 64. 977 66. 086 63. 963 63. 093 64. 978 65. 099 66. 379 66. 581	60. 116 57. 694 57. 881 59. 355 60. 226 59. 239 60. 164 59. 919 60. 936	1.00 28.21 1.00 26.82 1.00 29.86 1.00 28.34 1.00 29.50 1.00 27.80 1.00 30.32 1.00 32.21 1.00 33.05 1.00 34.99	A A A A A A A	C C C C C O N C C C

				FIG. 4-97	(Continued)
ATOM	4704 4705	CD GLU OE1 GLU	608 608	50. 054 66. 482 62. 389 1. 00 38. 42 A 49. 197 66. 454 63. 302 1. 00 37. 67 A	C 0
ATOM ATOM	4705	OE1 GLU	608	51. 285 66. 435 62. 625 1. 00 40. 64 A	ŏ
ATOM	4707	C GLU	608	50. 606 63. 891 60. 012 1. 00 32. 76 A	C
ATOM	4708	0 GLU	608	49.889 63.527 60.947 1.00 33.47 A	0
ATOM	4709	n ala	609	50. 643 63. 270 58. 836 1. 00 31. 32 A	N
ATOM	4710	CA ALA	609	49. 827 62. 090 58. 595 1. 00 30. 73 A	C
ATOM	4711	CB ALA	609	49. 883 61. 682 57. 123 1. 00 28. 50 A	C
ATOM	4712	C ALA	609	50. 355 60. 968 59. 472 1. 00 30. 16 A 49. 583 60. 274 60. 139 1. 00 31. 03 A	C 0
ATOM ATOM	4713 4714	O ALA N ALA	609 610	49. 583 60. 274 60. 139 1. 00 31. 03 A 51. 674 60. 803 59. 479 1. 00 29. 26 A	N N
ATOM	4715	CA ALA	610	52. 310 59. 758 60. 274 1. 00 28. 48 A	Č
ATOM	4716	CB ALA	610	53. 826 59. 818 60. 114 1. 00 27. 67 A	Č
ATOM	4717	C ALA	610	51. 930 59. 886 61. 743 1. 00 27. 62 A	C
<b>ATOM</b>	4718	0 ALA	610	51. 556 58. 904 62. 379 1. 00 28. 43 A	0
ATOM	4719	N ARG	611	52.025 61.094 62.282 1.00 26.94 A	N
ATOM -	4720	CA ARG	611	51. 674 61. 309 63. 678 1. 00 28. 98 A	C
ATOM	4721	CB ARG	611	51. 812 62. 787 64. 042 1. 00 28. 96 A	C C
ATOM ATOM	4722 4723	CG ARG CD ARG	611 611	53. 239 63. 291 64. 032 1. 00 29. 26 A 53. 281 64. 799 64. 187 1. 00 29. 92 A	C
ATOM	4724	NE ARG	611	54. 641 65. 322 64. 102 1. 00 28. 90 A	N .
ATOM	4725	CZ ARG	611	54. 980 66. 384 63. 378 1. 00 29. 97 A	Č
ATOM	4726	NH1 ARG	611	54. 055 67. 028 62. 680 1. 00 31. 41 A	N
ATOM	4727	NH2 ARG	611	56. 237 66. 802 63. 347 1. 00 29. 57 A	N
ATOM	4728	C ARG	611	50. 242 60. 846 63. 923 1. 00 29. 90 A	C
ATOM	4729	0 ARG	611	49. 983 60. 084 64. 856 1. 00 31. 08 A	0
ATOM	4730	N GLN	612	49. 319 61. 298 63. 076 1. 00 30. 18 A	N
ATOM	4731 4732	CA GLN CB GLN	612 612	47. 916 60. 922 63. 195 1. 00 30. 42 A 47. 108 61. 497 62. 035 1. 00 30. 55 A	C C
ATOM ATOM	4733	CG GLN	612	47.112 63.001 61.964 1.00 33.70 A	Ċ
ATOM	4734	CD GLN	612	46. 446 63. 637 63. 162 1. 00 34. 91 A	č
ATOM	4735	OE1 GLN	612	45. 276 63. 379 63. 444 1. 00 35. 03 A	Ö
ATOM	4736	NE2 GLN	612	47. 188 64. 475 63. 875 1. 00 35. 30 A	N
ATOM	4737	C GLN	612	47. 740 59. 405 63. 223 1. 00 30. 70 A	C
ATOM	4738	O GLN	612	46. 993 58. 878 64. 049 1. 00 31. 56 A	0
ATOM	4739	N PHE	613	48. 415 58. 698 62. 324 1. 00 30. 50 A	N
ATOM	4740	CA PHE	613	48. 291 57. 248 62. 301 1. 00 32. 33 A 49. 043 56. 653 61. 114 1. 00 31. 37 A	C
ATOM ATOM	4741 4742	CB PHE CG PHE	613 613	49. 043 56. 653 61. 114 1. 00 31. 37 A 48. 537 57. 126 59. 787 1. 00 30. 49 A	C
ATOM	4743	CD1 PHE	613	47. 167 57. 171 59. 529 1. 00 30. 03 A	č
ATOM	4744	CD2 PHE	613	49. 423 57. 523 58. 793 1. 00 28. 11 A	C
ATOM	4745	CE1 PHE	613	46. 687 57. 604 58. 300 1. 00 29. 96 A	C
ATOM	4746	CE2 PHE	613	48. 954 57. 959 57. 559 1. 00 28. 75 A	C
ATOM	4747	CZ PHE	613	47. 585 58. 001 57. 309 1. 00 28. 70 A	C
ATOM	4748	C PHE	613	48. 835 56. 679 63. 597 1. 00 34. 28 A	C
ATOM	4749	O PHE	613	48. 327 55. 677 64. 107 1. 00 34. 47 A 49. 865 57. 326 64. 134 1. 00 35. 61 A	O N
ATOM ATOM	4750 4751	N SER CA SER	614 614	49. 865 57. 326 64. 134 1. 00 35. 61 A 50. 454 56. 884 65. 388 1. 00 37. 88 A	C
ATOM	4752	CA SER CB SER	614	51. 723 57. 677 65. 683 1. 00 38. 32 A	Č
111 001			VII	VA. 180 VI. 31. 32. 33. 2. 33. 43. 43. 43.	-

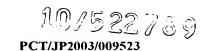
					FΙ	G. 4	- 98			(Continued)
ATOM ATOM ATOM ATOM	4753 4754 4755 4756 4757	C O N CA	SER SER SER LYS LYS	614 614 615 615	52. 686 49. 424 49. 283 48. 694 47. 663	57. 098 56. 276 58. 204 58. 490	66. 494 67. 398 66. 413 67. 400	1.00 39.76 1.00 41.47 1.00 40.51 1.00 41.32	A A A A	0 C 0 N C
ATOM ATOM ATOM ATOM	4758 4759 4760 4761	CB CG CD CE	LYS LYS LYS LYS	615 615 615 615	47. 047 47. 884 47. 064 47. 864	61. 040 62. 330	67.642	1. 00 42. 73 1. 00 44. 59 1. 00 46. 18 1. 00 46. 73	A A A	C C C C
ATOM ATOM ATOM ATOM	4762 4763 4764 4765	NZ C O N	LYS LYS LYS MET	615 615 615 616	48. 314 46. 552 45. 794 46. 456	63. 301 57. 441	69. 577 67. 347 68. 303 66. 230	1.00 48.03 1.00 40.86 1.00 41.94 1.00 39.78	A A A	N C O
ATOM ATOM ATOM ATOM	4766 4767 4768 4769	CA CB CG	MET MET MET	616 616 616	45. 418 45. 246 44. 673	55. 712 55. 374 56. 532	66. 065 64. 578 63. 768	1.00 37.88 1.00 37.42 1.00 35.95	A A A	N C C C
ATOM ATOM ATOM	4770 4771 4772	SD CE C	MET MET MET MET	616 616 616	44. 195 43. 946 45. 654 44. 908	56. 101 57. 730 54. 447 53. 473	62. 079 61. 385 66. 885 66. 772	1. 00 35. 73 1. 00 34. 06 1. 00 36. 90 1. 00 37. 22	A A A	S C C O
ATOM ATOM ATOM ATOM	4773 4774 4775 4776	N CA C O	GLY GLY GLY GLY	617 617 617 617	46. 706 47. 013 47. 445 47. 806	54. 469 53. 355 51. 995 51. 143	67. 698 68. 578 68. 065 68. 872	1. 00 35. 15 1. 00 32. 74 1. 00 32. 72 1. 00 33. 71	A A A	N C C O
ATOM ATOM ATOM ATOM	4777 4778 4779 4780	N CA CB CG	PHE PHE PHE PHE	618 618 618 618	47. 409 47. 841 46. 701 46. 047	51. 751 50. 447 49. 759 50. 624	66. 761 66. 262 65. 496 64. 457	1.00 32.52 1.00 31.36 1.00 31.10 1.00 31.61	A A A	N C C C
ATOM ATOM ATOM ATOM	4781 4782 4783 4784	CD2 CE1	PHE PHE PHE PHE	618 618 618 618	46. 743 44. 724 46. 129 44. 104	51. 025 51. 027 51. 815 51. 814	63. 322 64. 607 62. 349 63. 642	1.00 31.30 1.00 30.93 1.00 31.53 1.00 30.94	A A A	C C C
ATOM ATOM ATOM ATOM	4785 4786 4787 4788	CZ C O N	PHE PHE PHE VAL	618 618 618 619	44. 808 49. 109 49. 303 49. 982	52. 209 50. 521 49. 735	62. 509 65. 404 64. 477	1.00 29.86 1.00 30.95 1.00 30.95	A A A	C C C
ATOM ATOM ATOM	4789 4790 4791	CA CB CG1	VAL VAL VAL	619 619 619	51. 226 51. 226 52. 632	51. 465 51. 627 52. 928 53. 200	65. 732 64. 996 64. 147 63. 617	1.00 30.23 1.00 29.99 1.00 29.39 1.00 28.74	A A A	N C C
ATOM ATOM ATOM	4792 4793 4794 4795	CG2 C O N	VAL VAL ASP	619 619 619 620	50. 248 52. 425 52. 400 53. 475	52. 804 51. 673 52. 342 50. 954	62. 994 65. 931 66. 962 65. 561	1. 00 26. 48 1. 00 29. 66 1. 00 30. 05 1. 00 29. 84	A A A	C C O N
ATOM ATOM ATOM	4796 4797 4798 4799	CA CB CG OD1		620 620 620 620	54. 695 55. 563 56. 789 57. 191	50. 932 49. 748 49. 587 50. 580	66. 347 65. 924 66. 794 67. 439	1.00 29.07 1.00 27.94 1.00 27.02 1.00 26.38	A A A	C C C
ATOM ATOM	4800 4801	OD2 C	ASP ASP	620 620	57. 358 55. 408	48. 473 52. 243		1.00 25.22 1.00 30.30	A A	0 C

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					FΙ	G. 4	- 9 9			(Continued)
ATOM	4802	0	ASP	620	56.009			1.00 29.95	A	0
ATOM	4803	N	ASN	621	55. 330		66. 958	1.00 33.01	A	N
ATOM	4804	CA	ASN	621	55. 962		66. 746	1.00 35.15	A	C
ATOM	4805 4806	CB CG	ASN ASN	621	55. 761		67.975	1.00 38.29	A	C
ATOM ATOM	4807		ASN	621 621	56. 420 57. 648			1.00 43.03	A	C
ATOM	4808		ASN	621	55.606		69.346	1.00 44.79	A	0 N
ATOM	4809	C	ASN	621	57. 453		70. 130 66. 441	1.00 45.61	A	N C
ATOM	4810	0	ASN	621	58. 083			1.00 35.20	A	C
ATOM	4811	N	LYS	622	58. 016		66.004	1.00 34.67	A	0 N
ATOM	4812	CA	LYS	622	59. 439		66.660	1.00 36.30	A	N C
ATOM	4813	CB	LYS	622	60. 030		66.418 67.464	1.00 35.70 1.00 37.42	A	C
ATOM	4814	CG	LYS	622	60. 148		68. 866	1.00 37.42	A	C C
ATOM	4815	CD	LYS	622	60. 763			1.00 39.14	A A	C
ATOM	4816	CE	LYS	622	60. 839		71. 240	1.00 45.03	A	C
ATOM	4817	NZ	LYS	622	61.516		72. 123	1.00 45.27	A	N
ATOM	4818	C	LYS	622	59.762		65. 036	1.00 34.38	A	C
ATOM	4819	ŏ	LYS	622	60.896		64.571	1.00 34.38	A	Ö
ATOM	4820	Ň	ARG	623	58. 783		64. 374	1.00 33.07	A	N N
ATOM	4821	CA	ARG	623	59.030		63.046	1.00 31.60	A	Č
ATOM	4822	CB	ARG	623	58. 821		63.058	1.00 29.00	A	Č
ATOM	4823	ČĞ	ARG	623	59. 767		64.009	1.00 23.34	A	Č
ATOM	4824	CD	ARG	623	59.117	47. 832	64.614	1.00 32.12	A	Č
ATOM	4825	NE	ARG	623	59. 247	46.663	63. 758	1.00 34.25	A	N N
ATOM	4826	CZ	ARG	623	58. 457	45.601	63. 833	1.00 34.26	A	Č
ATOM	4827	NH1	ARG	623	57. 476	45. 572	64. 725	1.00 35.41	A	N
ATOM	4828		ARG	623	58.655	44. 571	63. 021	1.00 33.15	A	N
ATOM	4829	C	ARG	623	58. 179	51.957	61.962	1.00 27.66	A	Č
ATOM	4830	Ö	ARG	623	57. 315	51.313	61.363	1.00 27.44	A	ŏ
ATOM	4831	N	ILE	624	58. 425	53. 241	61.720	1.00 25.16	Ä	N
ATOM	4832	CA	ILE	624	57.708	53. 977	60.685	1.00 24.70	Ä	Č
ATOM	4833	CB	ILE	624	57.114	55. 298	61. 224	1.00 24.52	Ä	č
ATOM	4834	CG2	ILE	624	56. 391	56.025	60. 107	1.00 23.47	Ä	č
ATOM	4835	CG1	ILE	624	56. 136		62.371	1.00 24.01	Ä	č
ATOM	4836	CD1	ILE	624	55. 473		62.936	1.00 19.15	A	Č
ATOM	4837	C	ILE	624	58.667	54.311	59. 532	1.00 24.37	Ā	č
ATOM	4838	0	ILE	624	59.651	55.034	59.709	1.00 23.38	A	0
ATOM	4839	N	ALA	625	58. 384		58.356	1.00 22.58	A	N
ATOM	4840	CA	ALA	625	59. 213	54.014	57. 189	1.00 21.00	A	Ċ
ATOM	4841	CB	ALA	625	59.650	52.693	56.579	1.00 20.21	Α	C
ATOM	4842	C	ALA	625	58.430	54.833	56.168	1.00 21.28	Α	Ċ
ATOM	4843	0	ALA	625	57. 209	54.966	56.275	1.00 21.90	Α	0
ATOM	4844	N	ILE	626	59. 135	55.385	55.185	1.00 19.63	Á	N
ATOM	4845	CA	ILE	626	58. 502	56.178	54. 137	1.00 18.63	Α	C
ATOM	4846	CB	ILE	626	58. 589	57.699	54. 446	1.00 18.98	Α	С
ATOM	4847	CG2		626	60.032	58. 103	54.694	1.00 18.36	Α	C
ATOM	4848	CG1		626	57. 973	58. 501	53. 296	1.00 19.11	Α	С
ATOM	4849	CD1		626	57.872	59. 991	53. 562	1.00 18.34	A	C
ATOM	4850	C	ILE	626	59. 185	55.882	52.809	1.00 17.48	Α	C



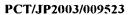
(Continued) FIG. 4-100 52.776 626 60.380 55.619 1.00 17.10 0 4851 ILE **ATOM** 0 55.893 51.719 1.00 17.62 627 58.425 4852 TRP A N **ATOM** N 50.409 58.998 55.622 1.00 17.62 C 4853 TRP 627 A **ATOM** CA 54.118 50.206 1.00 16.80 C ATOM 4854 CB TRP 627 59.190 A 627 58.096 53.441 49.427 1.00 18.70 C TRP A **ATOM** 4855 CG 48.044 1.00 17.58 C 58.139 53.055 CD2 TRP 627 Α **ATOM** 4856 1.00 17.70 47.749  $\mathbb{C}$ 56.912 **ATOM** 4857 CE2 TRP 627 52.425 Α 4858 CE3 TRP 627 59.095 53.179 47.028 1.00 15.10 A C **ATOM** 53.047 49.895 1.00 18.68 C 627 56.879 4859 CD1 TRP A **ATOM** N 48.896 56.163 52.435 1.00 18.72 A **ATOM** 4860 NE1 TRP 627 46.480 **ATOM** 4861 CZ2 TRP 627 56.617 51.916 1.00 16.42 A C 58.801 52.673 45.769 1.00 14.48 C CZ3 TRP 627 A **ATOM** 4862 45.507 C 1.00 14.63 CH2 TRP 57.575 52.048 **ATOM** 4863 627 Α 49.275 627 58.157 56.191 1.00 18.48 C **ATOM** 4864 TRP A C 49.381 627 56.934 56.280 1.00 18.15 0 **ATOM** 4865 0 TRP A 628 58.829 56.579 48.193 1.00 18.70 A N **ATOM** 4866 **GLY** N 58.140 57.146 47.049 1.00 18.30 **GLY** 628 C 4867 A **ATOM** CA 1.00 18.36 45.787 C 58.986 57.163 **ATOM** 4868 C **GLY** 628 A 60.212 45.833 1.00 19.07 0 4869 **GLY** 628 57.065 Α **ATOM** 0 629 58.312 57.300 44.654 1.00 17.25 **ATOM** 4870 N TRP A N 57.322 58.945 43.343 1.00 15.27 629 C **ATOM** 4871 CA TRP A 1.00 10.48 629 58.306 42.494 C 4872 CB TRP 56.214 Α ATOM TRP 629 59.131 55.698 41.357 1.00 10.84 C **ATOM** 4873 CG A C 59.512 41.122 TRP 629 54.335 1.00 9.02 **ATOM** 4874 CD2 A 60.243 39.914  $\mathbb{C}$ 4875 CE2 TRP 629 54.310 1.00 10.87 **ATOM** A **ATOM** 4876 CE3 TRP 629 59.312 53.135 41.818 1.00 9.31 C A 59.635 4877 CD1 TRP 629 56.422 40.313 1.00 10.72 C **ATOM** A 60.299 NE1 TRP 629 55.595 39.443 1.00 10.74 N 4878 ATOM Α **ATOM** 4879 CZ2 TRP 629 60.779 53.126 39.379 1.00 12.40  $\mathbb{C}$ A CZ3 59.842 41.295 C **ATOM** 4880 TRP 629 51.959 1.00 11.95 A 4881 CH2 TRP 629 60.571 51.965 40.080 1.00 13.29 C **ATOM** A 42.753 **ATOM** 4882 TRP 629 58.671 58.722 1.00 15.91 C C A TRP 629 57.622 59.300 43.012 1.00 15.58 **ATOM** 4883 0 Α 0 4884 **SER** 630 59.612 59.269 41.983 1.00 16.99 N **ATOM** N A 630 59.453 41.383 **ATOM** 4885 CA SER 60.603 1.00 16.78 C Α 58.258 630 40.421 1.00 18.65 C 4886 CB SER 60.644 **ATOM** Α **ATOM** 4887 0G SER 630 58.531 59.987 39.198 1.00 22.38 A 0 4888 59.234 61.656 42.450 1.00 16.69 C **ATOM** C SER 630 Α 43.321 1.00 17.90 SER 630 60.076 61.856 4889 0 0 **ATOM** A 58.093 **TYR** 631 62.335 42.368 1.00 17.21 **ATOM** 4890 N A N 631 57.737 63.362 43.335 1.00 15.51 C **ATOM** 4891 CA TYR A 56.380 42.981 C **ATOM** 4892 CB **TYR** 631 63.969 1.00 17.16 A C **TYR** 43.545 4893 CG 631 56.161 65.353 1.00 18.38 **ATOM** A 44.909 C TYR 1.00 18.79 **ATOM** 4894 CD1 631 55.947 65.550 Α **ATOM** 4895 CE1 TYR 631 55.741 66.826 45.429 1.00 19.48 C A 42.714 TYR 631 66.470 1.00 18.85 C 4896 CD2 56.168 **ATOM** Α C 4897 CE2 TYR 631 55.963 43.226 1.00 19.30 A **ATOM** 67.751 C 4898 CZTYR 631 55.748 44.580 1.00 19.21 **ATOM** 67.918 A 631 1.00 20.71 4899 OH TYR 55.520 0 69.173 45.084 **ATOM** 

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(Continued)

					FIC	3.4-	101			(00.
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4900 4901 4902 4903 4904 4905 4906 4907 4908 4910 4911 4913 4914 4915 4916 4917 4918 4921 4921 4922 4923 4924 4925 4926 4927 4928 4930 4931 4935	CE2 CZ OH C O N CA CB CG1 CG2 C O N CA CB OG1	TYR GLYY YR TYR TYR TYR TYR TYR THR THR THR THR THR	631 632 632 632 633 633 633 633 634 634 634 634 634 634	F I C 57. 672 57. 946 57. 324 57. 266 58. 653 58. 816 59. 655 61. 030 61. 500 62. 251 61. 058 61. 418 60. 901 60. 914 62. 112 62. 125 59. 723 59. 727 60. 933 60. 957 60. 829 61. 524 59. 542 58. 899 57. 364 56. 743 56. 758 59. 486 59. 681 59. 779 60. 368 60. 701 59. 504 61. 362 61. 676 61. 914	62. 632 63. 201 61. 350 60. 529 60. 477 60. 652 60. 246 60. 185 61. 513 61. 561 62. 598 63. 940 64. 964 66. 382 67. 069 68. 398 67. 057 68. 383 69. 049 70. 375 64. 240 64. 721 63. 968 64. 218 64. 721 63. 968 64. 218 64. 025 63. 948 65. 167 63. 296 63. 711 62. 054 61. 696 59. 746 59. 746 59. 746 61. 696	1 0 1  44. 668 45. 731 44. 592 45. 783 46. 394 47. 596 45. 551 46. 014 46. 576 47. 555 45. 954 46. 072 46. 484 46. 173 46. 586 46. 734 47. 778 48. 672 47. 949 49. 231 49. 135 50. 524 48. 326 50. 294 51. 439 49. 917 50. 855 50. 175 49. 696 51. 157 51. 396 52. 609	1. 00 15. 27 1. 00 13. 23 1. 00 14. 83 1. 00 15. 04 1. 00 14. 53 1. 00 13. 85 1. 00 15. 63 1. 00 15. 25 1. 00 16. 82 1. 00 13. 67 1. 00 13. 29 1. 00 13. 46 1. 00 13. 37 1. 00 13. 37 1. 00 13. 37 1. 00 13. 37 1. 00 13. 37 1. 00 14. 36 1. 00 12. 83 1. 00 12. 83 1. 00 12. 97 1. 00 14. 36 1. 00 16. 28 1. 00 16. 28 1. 00 16. 28 1. 00 16. 28 1. 00 16. 44 1. 00 15. 15 1. 00 14. 56 1. 00 16. 48 1. 00 16. 48 1. 00 16. 16 1. 00 18. 40 1. 00 18. 30 1. 00 20. 57 1. 00 20. 48 1. 00 19. 91 1. 00 19. 58	A A A A A A A A A A A A A A A A A A A	CONCCONCCCCCCCCCONCCCCCONCCOCCO
ATOM ATOM	4936 4937	N CA	SER SER	637 637	62. 524 63. 804	62. 141 62. 711	50. 483 50. 862	1.00 19.58 1.00 19.89 1.00 20.30	A A A	N C
ATOM ATOM ATOM	4938 4939 4940	CB OG C	SER SER SER	637 637 637	64. 599 64. 823 63. 615	63. 086 61. 952 63. 938	49. 614 48. 800 51. 749	1.00 19.17 1.00 19.07	A A	C 0
ATOM ATOM	4941 4942	0 N	SER MET	637 638	64. 235 62. 760	64. 049 64. 855	52. 812 51. 309	1.00 21.61 1.00 22.54 1.00 21.06	A A A	C 0 N
ATOM ATOM ATOM	4943 4944 4945	CA CB CG	MET MET MET	638 638 638	62. 490 61. 417 61. 876	66. 074 66. 895 67. 465	52. 066 51. 354 50. 032	1.00 21.87 1.00 20.36 1.00 21.23	A A A	C C
ATOM ATOM ATOM	4946 4947 4948	SD CE C	MET MET MET	638 638 638	63. 069 62. 006 62. 039	68. 787 70. 229 65. 748	50. 261 50. 125 53. 494	1. 00 21. 33 1. 00 19. 31 1. 00 21. 51	A A A	S C C



### 105/246

					P. C.		1 0 0			(Continued)
					FIG	÷. 4 -	102			
ATOM	4949	0	MET	638	62.511	66.351	54.472	1.00 19.64	Α	0
ATOM	4950	N	VAL	639	61.116	64. 798	53.600	1.00 19.63	A	N
ATOM	4951	CA	VAL	639	60. 611	64. 372	54.891	1.00 20.04	A	C
ATOM	4952	CB	VAL	639	59. 524	63. 287	54. 746	1.00 20.08	A	C
ATOM	4953		VAL	639	59. 201	62. 688	56.112	1.00 20.55	A	C
ATOM ATOM	4954 4955	CGZ	VAL VAL	639 639	58. 275	63. 879 63. 793	54.108	1.00 17.95	A	C
ATOM	4956	ŏ	VAL	639	61.758 61.986	64. 185	55.692 56.831	1.00 20.25 1.00 23.11	A	C
ATOM	4957	N	LEU	640	62. 489	62. 864	55.088	1.00 23.11	A A	O N
ATOM	4958	CA	LEU	640	63. 608	62. 225	55.765	1.00 22.08	A	C
ATOM	4959	CB	LEU	640	64. 245	61. 179	54. 855	1.00 22.00	A	Č
ATOM	4960	CG	LEU	640	63. 400	59. 939	54. 570	1.00 21.31	A	č
ATOM	4961		LEU	640	64. 143	59. 041	53.611	1.00 22.16	A	č
ATOM	4962		LEU	640	63. 105	59. 205	55.863	1.00 22.25	Ä	č
<b>ATOM</b>	4963	C	LEU	640	64.675	63. 212	56.239	1.00 23.38	Ä	Č
ATOM	4964	0	LEU	640	65.416	62.922	57.182	1.00 22.99	Ā	0
ATOM	4965	N	GLY	641	64.745	64.374	55.592	1.00 23.16	Α	N
ATOM	4966	CA	GLY	641	65. 731	65.368	55.972	1.00 23.10	Α	С
ATOM	4967	C	GLY	641	65. 153	66.555	56. 721	1.00 23.73	Α	C
ATOM	4968	0	GLY	641	65. 782	67.609	56.802	1.00 23.94	Α	0
ATOM	4969	N	SER	642	63. 958	66. 393	57. 278	1.00 22.74	A	N
ATOM	4970	CA	SER	642	63. 318	67. 484	58.002	1.00 20.76	A	Č
ATOM	4971	CB	SER	642	61.798	67. 370	57. 883	1.00 19.77	A	C
ATOM ATOM	4972 4973	OG C	SER SER	642	61.319	66. 213	58. 546	1.00 17.97	A	0
ATOM	4974	0	SER	$642 \\ 642$	63. 723 63. 656	67. 488 68. 519	59. 471	1.00 21.73	A	C
ATOM	4975	N	GLY	643	64. 136	66. 327	60. 140 59. 967	1.00 21.40 1.00 22.24	A	0
ATOM	4976	CA	GLY	643	64. 548	66. 213	61.350	1.00 22.24	A A	N C
ATOM	4977	C	GLY	643	63. 407	65. 944	62.314	1.00 22.04	A	C
ATOM	4978	Ŏ	GLY	643	63. 585	66.064	63. 528	1.00 25.14	A	0
<b>ATOM</b>	4979	N	SER	644	62. 244	65. 573	61.786	1.00 23.53	A	N
ATOM	4980	CA	SER	644	61.067	65.301	62.616	1.00 23.38	A	Č
ATOM	4981	CB	SER	644	59.850	64.995	61.742	1.00 24.79	Ä	Č
ATOM	4982	0G	SER	644	59.898	63.666	61.247	1.00 24.45	Ā	0
ATOM	4983	C	SER	644		64. 129	63.559	1.00 23.18	Α	C
ATOM	4984	0	SER	644		63. 961	64.536	1.00 24.28	Α	0
ATOM	4985	N	GLY	645		63. 307	63. 258	1.00 23.27	A	N
ATOM	4986	CA	GLY	645		62. 166	64.107	1.00 24.80	A	C
ATOM	4987	C	GLY	645		61.175	64.114	1.00 24.80	A	C
ATOM	4988	0	GLY	645		60. 248	64.920	1.00 27.93	A	0
ATOM ATOM	4989 4990	N CA	VAL VAL	646		61.357	63. 207	1.00 23.98	A	N
ATOM	4991	CB	VAL	646 646		60. 474 61. 207	63. 121 62. 473	1.00 22.32	A	C
ATOM	4992	CG1	VAL	646		60. 230	62. 215	1.00 24.36 1.00 22.37	Α Δ	C
ATOM	4993		VAL	646		62. 351	63. 381	1.00 22.37	A A	C C
ATOM	4994	C	VAL	646		59. 202	62. 327	1. 00 24. 11	A	C
ATOM	4995	Ō	VAL	646		58. 128	62.690	1.00 21.25	A	Ö
ATOM	4996	N	PHE	647		59.326	61. 239	1.00 21.00	Ä	Ň
ATOM	4997	CA	PHE	647		58. 182	60.380	1.00 18.33	Α	С

					FIG	G. 4-	103			(Continued)
ATOM	4998	СВ	PHE	647	60. 497		58. 924	1.00 15.79	A	С
<b>ATOM</b>	4999	CG	PHE	647	59.142	59.131	58. 551	1.00 16.11	Α	C
<b>ATOM</b>	5000	CD1	PHE	647	58.138	58. 258	58. 152	1.00 15.39	Α	С
ATOM	5001	CD2	PHE	647	58.841	60.479	58.680	1.00 14.43	Α	С
ATOM	5002	CE1	PHE	647	56.855	58.722	57.894	1.00 13.82	Α	C
ATOM	5003	CE2	PHE	647	57. 562	60.943	58. 423	1.00 15.28	Α	C
ATOM	5004	CZ	PHE	647	56. 568	60.061	58.031	1.00 13.75	Α	C
ATOM	5005	C	PHE	647	61.944	57.555	60.663	1.00 18.46	Α	С
ATOM	5006	0	PHE	647	62.943	58.250	60.825	1.00 20.84	Α	0
ATOM	5007	N	LYS	648	61.958	56.232	60.722	1.00 17.11	Α	N
ATOM	5008	CA	LYS	648	63. 165	55.480	60.996	1.00 19.06	Α	С
ATOM	5009	CB	LYS	648	62.789	54.105	61.545	1.00 17.86	Α	C
ATOM	5010	CG	LYS	648	63.961	53. 242	61.955	1.00 17.94	Α	C
ATOM	5011	CD	LYS	648	63.484	51.869	62.405	1.00 19.57	Α	С
ATOM	5012	CE	LYS	648	64. 594	51.083	63.095	1.00 19.22	Α	C
ATOM	5013	NZ	LYS	648	65.757	50.894	62.204	1.00 20.59	Α	N
ATOM	5014	C	LYS	648	64.025	55.314	59.747	1.00 21.47	A	C
ATOM	5015	0	LYS	648	65. 251	55.379	59.815	1.00 23.13	A	0
ATOM	5016	N	CYS	649	63.376	55.094	58.610	1.00 22.38	A	Ň
<b>ATOM</b>	5017	CA	CYS	649	64.077	54.898	57.353	1.00 24.23	Ä	C
<b>ATOM</b>	5018	C	CYS	649	63.156	55. 237	56. 181	1.00 24.09	A	Č
ATOM	5019	0	CYS	649	61.939	55.319	56. 342	1.00 23.94	Ä	Ö
<b>ATOM</b>	5020	CB	CYS	649	64. 527	53. 447	57. 237	1.00 27.68	A	č
ATOM	5021	SG	CYS	649	63. 130	52. 287	57. 313	1.00 32.05	Ä	Š
ATOM	5022	N	GLY	650	63.746	55. 426	55.004	1.00 21.50	Ä	N
ATOM	5023	CA	GLY	650	62.961	55. 757	53. 834	1.00 21.04	Ä	Ĉ
ATOM	5024	C	GLY	650	63.649	55. 384	52. 535	1.00 21.13	Ä	č
ATOM	5025	Ö	GLY	650	64. 874	55. 333	52. 474	1.00 21.62	Ä	Ö
ATOM	5026	Ň	ILE	651	62.857	55. 124	51.499	1.00 19.35	Ä	Ň
ATOM	5027	CA	ILE	651	63. 388	54. 753	50. 195	1.00 19.18	Ä	č
ATOM	5028	CB	ILE	651	62.896	53. 352	49. 758	1.00 19.03	Ä	č
ATOM	5029		ILE	651	63.601	52. 933	48. 481	1.00 17.31	Ä	č
ATOM	5030		ILE	651	63. 173	52. 326	50. 853	1.00 19.60	Ä	č
ATOM	5031		ILE	651	62.827	50. 901	50.456	1.00 18.48	Ä	č
ATOM	5032	C	ILE	651	62. 953	55. 749	49. 120	1.00 19.53	Ä	č
ATOM	5033	Ö	ILE	651	61.758		48. 949	1.00 19.77	Ä	ŏ
ATOM	5034	Ň	ALA	652	63. 925	56. 292	48. 393	1.00 18.34	Ä	Ň
ATOM	5035	CA	ALA	652	63.633	57. 240	47. 324	1.00 15.69	Ä	Č
ATOM	5036	CB	ALA	652	64. 323		47. 594	1.00 14.05	Ä	č
ATOM	5037	C	ALA	652	64.107	56. 662	45. 996	1.00 14.98	Ä	č
ATOM	5038	Ŏ	ALA	652	65. 288	56. 367	45.827	1.00 14.12	Ä	ŏ
ATOM	5039	Ň	VAL	653	63. 175		45.064	1.00 14.68	Ä	Ň
ATOM	5040		VAL	653	63. 492		43. 738	1.00 14.00	A	C
ATOM	5041		VAL	653	62. 582		43. 366	1.00 14.04	A	Č
ATOM	5042	CG1		653	62.865	54. 291	41.932	1.00 14.41	A	Č
ATOM	5043	CG2		653	62.806	53. 607	44. 352	1.00 14.30	Ä	Č
ATOM	5044	C	VAL	653	63. 292		42. 694	1.00 13.10	A	Č
ATOM	5045		VAL	653	62. 224		42.620	1.00 10.22	A	Ö
ATOM		Ň	ALA	654	64. 331		41.901	1.00 12.68	A	Ň

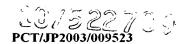
					FIG.	4 - 104	1		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5069 5070 5071 5072 5073 5074 5075 5076 5077 5078 5079 5080 5081	C O N CA CB OG CD NE CZ NH1 NH2 C O	VAL VAL SER SER SER SER SER ARG ARG ARG ARG ARG ARG ARG ARG	654 654 655 655 655 655 655 656 656 656	64. 289 58. 63. 513 57. 63. 653 59. 62. 687 60. 64. 208 60. 65. 319 59. 63. 643 61. 64. 092 61. 65. 476 60. 64. 090 62. 65. 166 62. 63. 245 63. 612 65. 245 63. 612 65. 419 66. 64. 382 65. 64. 382 65. 64. 382 65. 64. 382 65. 65. 419 66. 67. 589 66. 286 68. 385 66. 286 68. 387 68. 385 66. 286 68. 387 68. 385 66. 286 68. 387 68. 385 66. 385 66. 387 68. 385 66. 385 66. 387 68. 385 66	. 327	5 1.00 10.68 1.00 7.27 2 1.00 10.02 7 1.00 13.18 1.00 10.68 1.00 8.01 1.00 10.40 1.00 6.23 1.00 12.92 1.00 13.38 1.00 12.39 1.00 12.39	A A A A A A A A A A A A A A A A A A A	(Continued)  C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM	5082 5083 5084	N CA CB CG	TRP TRP TRP TRP	659 659 659 659	64. 514 71. 6 63. 603 71. 9 62. 465 72. 8	516 42.073 967 40.999 323 41.550	1.00 13.52 1.00 13.69 1.00 13.63	A A A	N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5086 5087 5088 5089 5090 1 5091 5092 5093 5094	CD2 CE2 CE3 CD1 NE1 CZ2 CZ3 CH2	TRP TRP TRP TRP TRP TRP TRP	659 659 659 659 659 659 659 659	61. 504 71. 9 60. 690 70. 8 60. 027 70. 3 60. 460 70. 3 61. 300 71. 9 60. 418 70. 9 59. 145 69. 2 59. 584 69. 3 58. 937 68. 7 64. 219 72. 5 63. 643 72. 5	398 41.829 313 42.927 382 40.547 980 43.692 993 44.050 233 42.785 311 40.403 446 41.516 380 39.748	1. 00 17. 48 1. 00 16. 63 1. 00 18. 08 1. 00 16. 21 1. 00 17. 21 1. 00 17. 37 1. 00 21. 55 1. 00 18. 00 1. 00 20. 15 1. 00 13. 15 1. 00 11. 17	A A A A A A A	C C C C C N C C C C C

					FIG	. 4 -	105			(Continued)
ATOM	5096	N	GLU		65. 400	73. 163	39. 871	1.00 14.12	A	N
ATOM	5097	CA	GLU		66.042	73. 725	38. 697	1.00 15.96	A	C
ATOM	5098	CB	GLU		67. 147	74. 704		1.00 16.83	A	C
ATOM	5099	CC	GLU		66.548	76.001	39.626	1.00 19.65	A	C
ATOM ATOM	5100 5101	CD OE1	GLU	660	67. 535	76. 901	40. 313	1.00 22.71	A	C
ATOM	5101		GLU GLU	660 660	68. 310 67. 527	77. 600 76. 907	39.617	1.00 25.18	A	0
ATOM	5102	C	GLU	660	66.577	70. 907	41. 561 37. 777	1.00 23.59 1.00 15.29	A	0
ATOM	5103	Õ	GLU	660	67. 001	72. 922	36. 659	1.00 15.29	A	C
ATOM	5105	N	TYR	661	66. 539	71. 383	38. 233	1.00 10.07	A	0 N
ATOM	5106	CA	TYR	661	67. 003	70. 269	37. 399	1.00 14.54	A	N
ATOM	5107	CB	TYR	661	67.642	69. 154	38. 230	1.00 14.57	A A	C C
ATOM	5108	CG	TYR	661	68. 878	69. 504	39. 035	1.00 15.73	A	C
ATOM	5109	CD1		661	69. 743	70. 531	38. 655	1.00 13.37	A	Č
ATOM	5110	CE1		661	70. 889	70. 805	39. 390	1.00 12.74	A	Č
ATOM	5111		TYR	661	69. 199	68. 765	40. 166	1.00 16.63	A	č
ATOM	5112		TYR	661	70. 338	69.027	40. 898	1.00 16.03	A	č
ATOM	5113	CZ	TYR	661	71.183	70.041	40. 515	1.00 13.47	Ä	č
ATOM	5114	OH	TYR	661	72.322	70.252	41.267	1.00 8.43	Ä	ŏ
ATOM	5115	C	TYR	661	65.842	69.637	36.608	1.00 15.74	Ä	č
ATOM	5116	0	TYR	661	66.077	68.854	35.675	1.00 13.97	Ä	ŏ
ATOM	5117	N	TYR	662	64.602	69.963	36.984	1.00 13.28	Ä	N
ATOM	5118	CA	TYR	662	63.445	69.390	36.308	1.00 13.00	A	Ċ
ATOM	5119	CB	TYR	662	62. 305	69.143	37. 308	1.00 14.01	Α	Č
ATOM	5120	CG	TYR	662	61.395	68.026	36.862	1.00 14.50	Α	С
ATOM	5121	CD1	TYR	662	60.010	68.199	36.802	1.00 15.74	Α	С
ATOM	5122		TYR	662	59. 184	67. 201	36. 273	1.00 14.99	Α	C
ATOM	5123		TYR	662	61.930	66.825	36.400	1.00 14.83	Α	C
ATOM	5124		TYR	662	61.122	65.830	35.873	1.00 15.13	Α	C C C C C
ATOM	5125	CZ	TYR	662	59. 756	66.024	35.804	1.00 15.11	Α	
ATOM	5126	OH	TYR	662	58. 983	65.060	35. 214	1.00 17.05	Α	0
ATOM	5127	C	TYR	662	62.964	70. 251	35. 135	1.00 12.46	A	C
ATOM	5128	0	TYR	662	63. 320	71. 423	35.030	1.00 12.22	A	0
ATOM	5129	N	ASP	663		69.673	34. 260	1.00 12.09	A	N
ATOM	5130	CA	ASP	663		70.394	33.076	1.00 13.20	A	C
ATOM ATOM	5131 5132	CB CG	ASP	663		69. 427	32.099	1.00 11.88	A	C
ATOM	5133		ASP ASP	663		68. 925	32.606	1.00 13.51	A	C
ATOM	5134		ASP	663 663		67.692	32. 633	1.00 14.06	A	0
ATOM	5135	C	ASP	663		69.758	32. 962	1.00 11.87	A	0
ATOM	5136	Ö	ASP	663		71.625 71.713	33. 300	1.00 13.03	A	C
ATOM	5137	N	SER	664		72. 576	34. 260 32. 383	1.00 12.71	A	0
ATOM	5138	CA	SER	664		73.829	32. 303 32. 425	1.00 12.83 1.00 13.80	A	N C
ATOM	5139	CB	SER	664		74.600	31. 120	1.00 13.80	A A	C
ATOM	5140	0G	SER	664		73.851	30.000	1.00 14.32	A	0
ATOM	5141	Č	SER	664		73. 688		1.00 13.35	A	C
ATOM	5142	Ŏ	SER	664		73.974	33. 762	1.00 15.82	A	0
ATOM	5143	N	VAL	665		73. 247		1.00 13.43	A	N
ATOM	5144	CA	VAL	665		73. 101		1.00 14.34	Ä	Č

					FI(	7. 4	- 106	•		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5145 5146 5147 5148 5149 5150 5151 5152 5153	CG CG C O N CA CB CG CD	1 VAL 2 VAL VAL TYR TYR TYR TYR 1 TYR	665 665 665 666 666 666 666	56. 027 54. 496 56. 537 55. 972 55. 153 56. 392 55. 876 56. 323 55. 839 54. 692	72. 182 72. 131 72. 690 72. 620 73. 302 71. 452 70. 948 69. 501 68. 903 68. 119	30. 615 29. 263 33. 070 33. 677 33. 534 34. 801 35. 038 36. 349 36. 395	1.00 14.98 1.00 15.10 1.00 13.19 1.00 14.50 1.00 14.33	A A A A A A A	Continued)  C C C C C O N C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5155 5156 5157 5158 5159 5160 5161 5162 5163 5164 5165		Z TYR Z TYR TYR TYR TYR TYR THR THR	666 666 666 666 666 667 667 667	54. 276 56. 560 56. 154 55. 012 54. 609 56. 297 55. 451 57. 592 58. 092 59. 621 60. 206	67. 517 69. 080 68. 482 67. 700 67. 072 71. 796 72. 200 72. 066 72. 833 72. 953 71. 675	37. 577 37. 534 38. 727 38. 737 39. 896 35. 998 36. 795 36. 125 37. 265 37. 251	1.00 13.28 1.00 13.77 1.00 12.27 1.00 15.52 1.00 18.37 1.00 17.89 1.00 19.29 1.00 17.90 1.00 19.74 1.00 18.84	A A A A A A A	C C C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5166 5167 5168 5169 5170 5171 5172 5173 5174	CG2 C O N CA CB CG CD OE1	THR THR GLU GLU GLU GLU GLU GLU	667 667 668 668 668 668 668	60. 108 57. 537 56. 916 57. 778 57. 330 57. 746 59. 251 59. 657 58. 783	73. 441 74. 246 74. 635 75. 011 76. 389 76. 976 77. 096 77. 559 78. 068	36. 968 38. 604 37. 339 38. 333 36. 280 36. 200 34. 859 34. 703 33. 322 32. 588	1.00 20.18 1.00 17.74 1.00 21.44 1.00 21.51 1.00 21.85 1.00 21.18 1.00 20.69 1.00 20.20 1.00 19.55 1.00 19.49	A A A A A A A	0 C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5175 5176 5177 5178 5179 5180 5181 5182 5183 5184	OE2 C O N CA CB CG CD NE CZ	GLU GLU ARG ARG ARG ARG ARG ARG ARG	668 668 669 669 669 669 669	60. 851 55. 828 55. 339 55. 098 53. 648 53. 060 51. 546 51. 085 51. 467	77. 422 76. 517 77. 559 75. 449 75. 458 74. 121 74. 026 72. 625 72. 187	32. 977 36. 394 36. 814 36. 101 36. 249 35. 786 35. 922 35. 653 34. 319	1. 00 18. 34 1. 00 21. 50 1. 00 22. 31 1. 00 21. 90 1. 00 21. 18 1. 00 22. 06 1. 00 21. 37 1. 00 20. 85 1. 00 21. 84	A A A A A A	O C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5185 5186 5187 5188 5189 5190 5191 5192 5193	NH1 NH2 C O N CA CB CG	ARG	669 669 669 669 670 670 670	51. 522 52. 018 53. 246 52. 209 54. 067 53. 771 53. 752 53. 113	70. 918 69. 962 70. 610 75. 706 76. 306 75. 239 75. 409 74. 048 72. 930 71. 995	33. 981 34. 888 32. 741 37. 695 37. 957 38. 631 40. 047 40. 764 39. 972 39. 310	1.00 21.10 1.00 19.62 1.00 20.23 1.00 21.23 1.00 20.45 1.00 21.65 1.00 22.27 1.00 21.10 1.00 20.47 1.00 20.74	A A A A A A A	C N N C O N C C C



					E I (	3. 4 -	107			(Continued)
										2
ATOM	5194		TYR	670	53. 321	70. 985	38. 537	1.00 22.18	A	C
ATOM	5195		TYR	670	51.726	72.831	39.850	1.00 19.78	A	C
ATOM	5196		TYR	670	51.139	71.831	39.079	1.00 19.87	A	C
ATOM	5197	CZ	TYR	670	51.944	70.911	38. 422	1.00 22.17	A	C
ATOM	5198	OH	TYR	670	51.388	69. 931	37. 623	1.00 23.11 1.00 23.32	A	0
ATOM	5199	C	TYR	670	54.769	76.317	40.757	1.00 23.32	A	C 0
ATOM	5200	0	TYR	670	54. 442	76. 937	41.763	1.00 24.66	A	N
ATOM	5201	N	MET	671	55. 983	76. 404	40. 228 40. 851		A	C
ATOM	5202	CA	MET	671	57.029	77. 207 76. 400	40. 831	1. 00 23. 96 1. 00 24. 00	A	C
ATOM	5203	CB	MET MET	671	58. 327 58. 288	76. 400 75. 215	40. 903	1.00 24.00	A A	C
ATOM	5204	CG SD	MET	671 671	58. 383	75. 732	43. 565	1.00 23.33	A	S
ATOM ATOM	5205 5206	CE	MET	671	60. 159	75. 732 75. 998	43. 721	1.00 24.97	A	C
ATOM	5200 5207	C	MET	671	57. 330	78. 547	40. 203	1.00 21.94	A	Č
ATOM	5207	0	MET	671	58. 101	79. 331	40. 756	1.00 25.98	A	Ŏ
ATOM	5209	N	GLY	672	56. 741	78. 822	39. 045	1.00 23.33	A	N
ATOM	5210	CA	GLY	672	57.044	80.076	38. 379	1.00 22.40	A	Č
ATOM	5211	C	GLY	672	58. 472	80.028	37. 857	1.00 22.69	A	č
ATOM	5212	ŏ	GLY	672	59. 005	78. 947	37. 641	1.00 23.27	Ä	ŏ
ATOM	5213	N	LEU	673	59.108	81.180	37. 667	1.00 22.65	Ä	Ň
ATOM	5214	CA	LEU	673	60.477	81. 209	37. 151	1.00 20.90	Ä	Ċ
ATOM	5215	CB	LEU	673	60.626	82. 356	36. 164	1.00 19.50	Ä	č
ATOM	5216	CG	LEU	673	59.639	82. 282	35.010	1.00 19.96	Ä	č
ATOM	5217		LEU	673	59.779	83. 513	34. 147	1.00 20.87	Ä	č
ATOM	5218		LEU	673	59.892	81.027	34. 203	1.00 21.63	Ā	Č
ATOM	5219	C	LEU	673	61.528	81.344	38. 248	1.00 21.08	Ā	Č
ATOM	5220	0	LEU	673	61.313	82.028	39. 239	1.00 21.87	Ā	0
ATOM	5221	N	PRO	674	62.692	80.700	38.072	1.00 21.90	Α	N
<b>ATOM</b>	5222	CD	<b>PRO</b>	674	63.050	79.803	36.968	1.00 21.16	Α	C
ATOM	5223	CA	PR <sub>0</sub>	674	63.780	80.747	39.050	1.00 23.23	Α	С
ATOM	5224	CB	PRO	674	64.618	79.510	38.709	1.00 21.90	Α	C
ATOM	5225	CG	PRO	674	63.803	78.755	37.695	1.00 22.34	Α	С
ATOM	5226	C	PRO	674	64.617	82.023	38.943	1.00 24.90	Α	C
ATOM	5227	0	PRO	674	65.841	81.977	39.028	1.00 26.10	Α	0
ATOM	5228	N	THR	675	63.966	83. 158	38. 743	1.00 25.88	Α	N
ATOM	5229	CA	THR	675	64. 695	84. 411	38.640	1.00 27.60	Α	C
ATOM	5230	CB	THR	675	64. 208	85. 237	37. 447	1.00 27.12	A	C
ATOM	5231	0G1		675	62.811	85. 524	37.599	1.00 29.30	A	0
ATOM	5232	CG2		675	64. 431	84. 471	36. 156	1.00 25.59	A	C
ATOM	5233	C	THR	675	64.496	85. 211	39.918	1.00 28.74	Ą	C
ATOM	5234	0	THR	675	63. 543	84. 982	40.660	1.00 29.47	A	0
ATOM	5235	N	PRO	676	65. 404	86. 156	40. 200	1.00 29.41	A	N
ATOM	5236	CD	PRO	676	66.625	86.508	39. 457	1.00 28.96	A	C
ATOM	5237	CA	PRO	676	65. 284	86.969	41.411	1.00 29.70	A	C
ATOM	5238	CB	PRO	676	66. 465	87. 929	41.299	1.00 28.87	A	C
ATOM	5239	CG	PRO	676 676	67. 467	87.142	40.533	1.00 28.27	A	C
ATOM	5240 5241	C 0	PRO PRO	676 676	63. 948 63. 359	87. 707 87. 829	41. 484 42. 558	1.00 30.03 1.00 29.93	A A	C 0
ATOM	5241	N	GLU	677	63. 463	88. 190	40.343	1.00 29.93	A	N N
ATOM	0646	1.4	OTO	011	UJ. 4UJ	00.130	40.040	1.00 00.02	Л	1.4



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					FIC	G. 4-	108			•
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5243 5244 5245 5246 5247 5248 5250 5251 5252 5253 5254 5255 5256 5257 5263 5264 5265 5266 5267 5268 5269 5271 5272 5271 5272 5272 5272 5272 5272	C O N CA CB CG OD1 ND2 C O N CA CB CG CD1	GLU GLU ASP ASP ASP ASP ASP ASN ASN ASN ASN ASN LEU LEU LEU LEU	677 677 677 677 677 677 677 678 678 678	62. 203 62. 192 62. 103 63. 380 64. 480 63. 276 60. 952 59. 893 61. 067 59. 906 59. 833 58. 472 57. 885 57. 980 59. 481 60. 442 60. 443 59. 326 58. 894 58. 491 58. 957 61. 760 61. 770 62. 873 64. 164 65. 316 66. 726 66. 844	88. 923 90. 013 89. 536 88. 877 89. 356 87. 891 88. 065 88. 564 86. 777 85. 897 85. 048 84. 359 83. 980 84. 189 84. 982 85. 382 83. 768 82. 835 81. 818 81. 146 79. 981 81. 879 82. 099 81. 055 82. 636 81. 967 82. 842 82. 275 80. 903	40. 348 39. 264 37. 821 37. 331 37. 697 36. 566 40. 231 39. 849 40. 523 39. 253 39. 097 40. 128 37. 956 41. 737 42. 810 41. 591 42. 708 42. 496 43. 778 43. 775 44. 882 42. 957 43. 601 42. 472 42. 665 42. 157 42. 385 41. 747	1. 00 30. 92 1. 00 32. 38 1. 00 34. 78 1. 00 37. 04 1. 00 35. 11 1. 00 30. 10 1. 00 31. 67 1. 00 28. 40 1. 00 26. 09 1. 00 25. 88 1. 00 28. 22 1. 00 28. 64 1. 00 28. 80 1. 00 25. 86 1. 00 25. 86 1. 00 25. 86 1. 00 25. 86 1. 00 27. 47 1. 00 19. 41 1. 00 19. 58 1. 00 20. 44 1. 00 19. 58 1. 00 20. 44 1. 00 18. 70 1. 00 21. 79 1. 00 24. 38 1. 00 26. 33 1. 00 26. 74 1. 00 28. 22 1. 00 30. 03	A A A A A A A A A A A A A A A A A A A	CCCCOOCONCCCONCONCCCCC
ATOM ATOM	5271 5272	CD1 CD2	LEU LEU	680 680	66. 844 67. 772	80. 903 83. 211	41.747 41.801	1.00 30.03 1.00 29.33	A A	C
ATOM ATOM ATOM	5273 5274 5275 5276	C O N CA	LEU LEU ASP ASP	680 680 681 681	64. 449 64. 977 64. 111 64. 360	81. 556 80. 471 82. 411 82. 091	46.475	1.00 27.18 1.00 28.31 1.00 27.79 1.00 28.03	A A A	C O N C
ATOM ATOM ATOM ATOM ATOM	5277 5278 5279 5280 5281	CB CG OD1 OD2 C	ASP ASP ASP ASP	681 681 681 681 681	63. 836 64. 774 65. 908 64. 380 63. 773	83. 196 84. 386 84. 289 85. 417 80. 753	47. 394 47. 473 46. 952 48. 067 46. 920	1.00 30.36 1.00 34.23 1.00 35.59 1.00 36.71 1.00 27.55	A A A A	C 0 0 C
ATOM ATOM ATOM ATOM ATOM	5282 5283 5284 5285 5286	O N CA CB CG	ASP HIS HIS HIS	681 682 682 682 682	64. 428 62. 551 61. 981 60. 456 59. 832	80.005 80.438 79.164 79.161 77.914	47. 647 46. 502 46. 913 46. 801 47. 349	1.00 28.05 1.00 25.37 1.00 25.07 1.00 25.14 1.00 27.18	A A A A	O N C C C
ATOM ATOM ATOM ATOM ATOM	5287 5288 5289 5290 5291	CD2 ND1	HIS HIS HIS	682 682 682 682 682	59. 091 60. 021 59. 428 58. 857 62. 559	76. 948 77. 503 76. 336 75. 977 77. 983	46. 754 48. 650 48. 832 47. 697 46. 130	1.00 27.87 1.00 26.29 1.00 26.61 1.00 25.03 1.00 24.30	A A A A A	C N C N C

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					D I (	2 4	1 0 0			(Continued)
					P I (	G. 4-	109			
ATOM	5292	0	HIS	682	62.463	76. 837	46. 572	1.00 23.47	Α	0
ATOM	5293	N	TYR	683	63.144	78. 258	44.966	1.00 23.49	Α	N
<b>ATOM</b>	5294	CA	TYR	683	63.768	77. 208	44.157	1.00 22.64	Α	C
ATOM	5295	CB	TYR	683	64. 249	77. 758	42.812	1.00 20.68	Α	C
ATOM	5296	CG	TYR	683	63. 291	77. 594	41.655	1.00 19.28	Α	C
ATOM	5297		TYR	683	63. 325	76. 461	40.857	1.00 16.29	Α	C
<b>ATOM</b>	5298		TYR	683	62.464	76. 317	39. 783	1.00 16.83	Α	C
ATOM	5299		TYR	683	62. 361	·78. 589	41. 347	1.00 20.47	Α	C
ATOM	5300		TYR	683	61.495	78. 453	40. 276	1.00 20.17	Α	C
ATOM	5301	CZ	TYR	683	61.554	77. 314	39. 500	1.00 19.09	A	C
ATOM	5302	OH	TYR	683	60. 695	77. 176	38. 441	1.00 21.54	A	0
ATOM	5303	C	TYR	683	64. 989	76. 727	44. 924	1.00 22.32	A	C
ATOM	5304	0	TYR	683	65. 189	75. 533	45. 125	1.00 22.65	A	0
ATOM	5305	N	ARG	684	65. 799	77. 685	45. 355	1.00 22.44	A	N
ATOM	5306	CA	ARG	684	67.025	77. 392	46.076	1.00 22.97	A	C
ATOM	5307	CB	ARG	684	67. 928	78. 624	46.071	1.00 22.89	A	C
ATOM	5308	CG	ARG	684	68. 349	79.064	44. 672	1.00 24.57	A	C
ATOM	5309	CD	ARG	684	69. 238	78. 020	44.004	1.00 23.11	A	C
ATOM	5310	NE CZ	ARG	684	69. 328	78. 223	42. 562	1.00 25.47	A	N
ATOM	5311	CZ	ARG	684	69.844	79. 299	41.974	1.00 27.89	A	C
ATOM	5312		ARG	684	70.337	80. 294	42. 703	1.00 29.09	A	N
ATOM	5313		ARG	684	69.846	79. 388	40.648	1.00 27.04	A	N C
ATOM ATOM	5314 5315	C 0	ARG ARG	684 684	66. 807 67. 711	76. 922 76. 368	47. 501 48. 111	1.00 22.90 1.00 24.16	A	C 0
ATOM	5316	N	ASN	685	65. 608	77. 121	48. 030	1.00 24.10	A A	N N
ATOM	5317	CA	ASN	685	65. 331	76. 715	49. 399	1.00 24.04		C
ATOM	5318	CB	ASN	685	64. 599	77. 831	50.134	1.00 24.41	A A	C
ATOM	5319	CG	ASN	685	64. 455	77. 547	51.610	1.00 28.42	A	C
ATOM	5320		ASN	685	65.410	77. 117	52. 266	1.00 34.24	A	0
ATOM	5321		ASN	685	63. 264	77. 791	52. 150	1.00 33.23	A	N N
ATOM	5322	C	ASN	685	64. 545	75. 419	49. 537	1.00 23.72	A	C
ATOM	5323	ŏ	ASN	685	64. 356	74. 929	50.649	1.00 23.86	A	Ö
ATOM	5324	Ň	SER	686	64. 101	74. 852			A	N
ATOM	5325	CA	SER	686	63. 336	73. 613	48. 457	1.00 19.71	Ä	Č
ATOM	5326	CB	SER	686	61.976	73. 811	47.774	1.00 19.20	A	Č
ATOM	5327	0G	SER	686	62.114		46.397	1.00 15.00	A	Ŏ
ATOM	5328	C	SER	686	64.060		47.823	1.00 20.13	Ä	Č
ATOM	5329	0	SER	686	63.447	71.611	47.128	1.00 21.27	A	Ŏ
<b>ATOM</b>	5330	N	THR	687	65.362	72.307	48.060	1.00 19.02	Α	N
ATOM	5331	CA	THR	687	66.122		47.509	1.00 17.15	Α	C
ATOM	5332	CB	THR	687	67.441	71.665	46.906	1.00 16.10	Α	С
ATOM	5333		THR	687	68.362	71.959	47.960	1.00 17.42	Α	0
ATOM	5334		THR	687	67.214	72.920	46.058	1.00 14.71	Α	С
ATOM	5335	C	THR	687	66.433	70.153	48. 585	1.00 15.79	Α	<b>C</b> .
ATOM	5336	0	THR	687	66.496	70.466	49.763	1.00 15.82	Α	0
ATOM	5337	N	VAL	688	66.627	68. 908	48. 182	1.00 18.43	A	N
ATOM	5338	CA	VAL	688	66. 935	67. 854	49.147	1.00 17.92	A	C
ATOM	5339	CB	VAL	688	66.840	66. 453	48. 480	1.00 17.13	A	C
ATOM	5340	CG1	VAL	688	67.092	65.352	49.503	1.00 15.01	Α	С

					FIC	3. 4 ·	110			(Continued)
ATOM ATOM	5341 5342	C	2 VAL VAL	688 688	65. 459 68. 341	66. 279 68. 059	47. 845 49. 720	1.00 18.49 1.00 17.50	A A	C C
ATOM ATOM	5343		VAL	688	68. 559	67. 905	50. 923	1.00 15.69	Α	0
ATOM	5344 5345	N CA	MET MET	689 689	69. 280 70. 672	68. 428 68. 647	48. 851 49. 246	1.00 16.92 1.00 17.40	A	N
ATOM	5346	CB	MET	689	71.475	69. 213	48.065	1.00 17.40	A A	C C
ATOM	5347	CG	MET	689	71. 829	68. 210	46.984	1.00 10.51	A	Č
ATOM	5348	SD	MET	689	70.465	67.740	45.909	1.00 11.73	Ä	Š
ATOM	5349	CE	MET	689	70. 338	69.210	44.871	1.00 9.36	Α	C
ATOM	5350	C	MET	689	70. 897	69.539	50.479	1.00 17.90	Α	C
ATOM ATOM	5351 5352	0 N	MET	689	71. 721	69. 220	51.341	1.00 16.90	A	0
ATOM	5353	N CA	SER SER	690 690	70. 179 70. 358	70.653 71.544	50.569	1.00 18.32	A	N
ATOM	5354	CB	SER	690	69. 621	72. 866	51.712 51.501	1.00 21.65 1.00 20.29	A A	C C
ATOM	5355	0G	SER	690	68. 234	72. 702	51.711	1.00 24.78	A	0
ATOM	5356	C	SER	690	69.898	70.933	53.038	1.00 22.31	A	Č
ATOM	5357	0	SER	690	69.930	71.606	54.063	1.00 23.43	Ä	Ō
ATOM	5358	N	ARG	691	69. 480	69.672	53.023	1.00 21.70	Α	N
ATOM ATOM	5359 5360	CA CB	ARG	691	69.041	69. 012	54. 249	1.00 23.07	A	C
ATOM	5361	CG	ARG ARG	691 691	67. 591 66. 623	68. 546	54.113	1.00 22.90	A	C
ATOM	5362	CD	ARG	691	65. 201	69. 652 69. 152	53. 770 53. 813	1.00 22.81 1.00 22.97	A	C
ATOM	5363	NE	ARG	691	64. 236	70. 240	53.694	1.00 24.03	A A	C N
ATOM	5364	CZ	ARG	691	62. 963	70. 134	54.061	1.00 26.18	A	C
ATOM	5365	NH1	ARG	691		68. 989	54. 566	1.00 25.20	A	N
ATOM	5366		ARG	691		71.172	53.946	1.00 26.01	Ä	N
ATOM	5367	C	ARG	691		67.811	54. 593	1.00 24.24	Α	C
ATOM	5368	0	ARG	.691		67. 031	55. 488	1.00 25.28	Α	0
ATOM ATOM	5369 5370	N CA	ALA ALA	692		67. 675	53. 889	1.00 24.03	A	N
ATOM	5371	CB	ALA	692 692		66. 561 66. 826	54. 100 53. 360	1.00 24.84	A	C
ATOM	5372	C	ALA	692		66. 210	55. 562	1.00 24.20 1.00 24.60	A	C
ATOM	5373	ŏ	ALA	692		65.068	55. 967	1.00 24.80	A A	C 0
ATOM	5374	N	GLU	693		67. 181	56. 347	1.00 25.74	A	N N
ATOM	5375	CA	GLU	693		66.944	57.757	1.00 27.13	A	Č
ATOM	5376	CB	GLU	693		68.266	58.463	1.00 29.38	A	Č
ATOM	5377	CG	GLU	693		68.606	58. 583	1.00 35.02	Α	С
ATOM	5378	CD	GLU	693		67. 627	59. 463	1.00 39.06	Α	С
ATOM ATOM	5379 5380	0E1	GLU	693		66.948	60.316	1.00 38.42	A	0
ATOM	5381	C	GLU	693 693		67. 554 66. 215	59. 307	1.00 41.03	A	0
ATOM	5382	ŏ	GLU	693		65. 505	58. 549 59. 506	1.00 26.16 1.00 26.78	A	C
ATOM	5383	Ň	ASN	694		66.387	58. 160	1.00 24.46	A A	0 N
ATOM	5384	CA	ASN	694		65. 734	58. 873	1.00 24.35	A	C
ATOM	5385	CB	ASN	694		66. 473	58. 619	1.00 26.79	A	Č
ATOM	5386	CG	ASN	694	68. 191	67. 796	59.370	1.00 28.23	Ä	Č
ATOM	5387		ASN	694		68. 607		1.00 29.60	Α	0
ATOM ATOM	5388 5389	ND2 C		694		68.015		1.00 27.09	A	N
VIOM	0003	C	ASN	694	69.412	64. 252	58. 567	1.00 22.78	Α	C

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					EI C	G. 4-	111			(Continued)
					1. 1 (	J. 4	111			
ATOM	5390	0	ASN	694	68.736	63.555	59.318	1.00 22.09	Α	0
ATOM	5391	N	PHE	695	70.008	63.764	57.481	1.00 21.23	Α	N
ATOM	5392	CA	PHE	695	69.876	62.351	57.135	1.00 20.87	Α	С
ATOM	5393	CB	PHE	695	70.297	62.085	55.686	1.00 18.97	Α	С
ATOM	5394	CG	PHE	695	69.262	62.465	54.663	1.00 15.41	Α	С
ATOM	5395		PHE	695	68.980	63.804	54. 394	1.00 16.20	Α	С
ATOM	5396		PHE	695	68. 582	61.480	53.948	1.00 13.85	A	C
ATOM	5397		PHE	695	68.033	64. 160	53. 419	1.00 15.80	Α	C
ATOM	5398		PHE	695	67.636	61.819	52.976	1.00 14.69	Ā	Č
ATOM	5399	CZ	PHE	695	67.360	63. 165	52.710	1.00 14.36	A	C
ATOM	5400	Č	PHE	695	70.704	61.478	58.068	1.00 22.60	A	C
ATOM	5401	ŏ	PHE	695	70. 734	60. 253	57. 932	1.00 22.75	Ā	0
ATOM	5402	Ň	LYS	696	71.388	62. 111	59.014	1.00 23.86	A	N
ATOM	5403	CA	LYS	696	72. 189	61.369	59. 980	1.00 24.30	Ä	C
ATOM	5404	CB	LYS	696	73.119	62. 315	60.744	1.00 23.88	Ä	Č
ATOM	5405	CG	LYS	696	74. 230	62.883	59.891	1.00 27.19	Ä	Č
ATOM	5406	CD	LYS	696	75. 160	63. 793	60.672	1.00 26.74	Ä	Č
ATOM	5407	CE	LYS	696	76. 354	64. 211	59.816	1.00 26.44	Ā	Č
ATOM	5408	NZ	LYS	696	77. 248	65. 163	60. 534	1.00 28.88	Ā	N
ATOM	5409	C	LYS	696	71. 256	60.670	60.962	1.00 24.58	Ä	Ċ
ATOM	5410	Ŏ	LYS	696	71.673	59. 790	61.710	1.00 24.47	Ä	Ō
ATOM	5411	N	GLN	697	69. 986	61.060	60.949	1.00 24.66	Ä	N
ATOM	5412	CA	GLN	697	69.013	60. 476	61.865	1.00 26.18	Ä	Ċ
ATOM	5413	CB	GLN	697	68.072	61.571	62.385	1.00 28.53	A	č
ATOM	5414	ĊĠ	GLN	697	68. 766	62.865	62. 792	1.00 31.73	Ä	Č
ATOM	5415	CD	GLN	697	67. 790	63. 938	63. 262	1.00 34.90	A	č
ATOM	5416	0E1		697	68.086	65. 133	63. 195	1.00 37.16	Ā	Ō
ATOM	5417		GLN	697	66.627	63.516	63.753	1.00 36.42	Ä	N
ATOM	5418	C	GLN	697	68.176	59.346	61.259	1.00 24.79	Ā	Ċ
ATOM	5419	Õ	GLN	697	67. 294	58.808	61.923	1.00 27.00	Ä	0
ATOM	5420	Ň	VAL	698	68. 439	58.979	60.011	1.00 21.46	A	N
ATOM	5421	CA	VAL	698	67.659	57.922	59. 383	1.00 18.56	Ā	C
ATOM	5422	CB	VAL	698	66.510	58. 517	58. 524	1.00 19.77	Ā	Č
ATOM	5423		VAL	698	65.674	59.467	59.355	1.00 19.11	Ā	Č
ATOM	5424		VAL	698	67.077	59. 233	57.296	1.00 15.74	A	Č
ATOM	5425	C	VAL	698	68.469	56.987	58.484	1.00 18.57	Ā	Č
ATOM	5426	0	VAL	698	69.614	57. 265	58.135	1.00 17.50	A	0
ATOM	5427	Ň	GLU	699	67.850	55.868	58. 121	1.00 18.32	A	N
ATOM	5428	CA	GLU	699	68.456	54.885	57. 236	1.00 18.24	A	C
ATOM	5429	CB	GLU	699	68.007	53.488	57.636	1.00 19.38	Α	Č
ATOM	5430	CG	GLU	699	67.600	53. 411	59.097	1.00 26.18	A	C C C
ATOM	5431	CD	GLU	699	68.384	52.377	59.891	1.00 29.91	A	Č
ATOM	5432		GLU	699	69.620	52.305	59.712	1.00 31.51	A	Ō
ATOM	5433		GLU	699	67.765	51.651	60.703	1.00 30.28	Ā	0
ATOM	5434	C	GLU	699	67.857	55. 286	55.891	1.00 17.20	A	Č
ATOM	5435	0	GLU	699	66.638	55.397	55.765	1.00 16.35	Α	0
<b>ATOM</b>	5436	N	TYR	700	68.714	55.516	54.899	1.00 15.53	Α	N
ATOM	5437	CA	TYR	700	68.275	55.968	53. 584	1.00 12.51	Α	C
ATOM	5438	CB	TYR	700	68.810	57. 383	53. 365	1.00 12.28	Α	C

					FI	G. 4-	112			(Continued)
ATOM	5439	CG	TYR	700	68. 374	58. 105	52.114	1.00 13.03	Α	С
ATOM	5440	CD1		700	67.027	58. 171	51.746	1.00 12.78	A	č
ATOM	5441	CE1		700	66. 611	58. 961	50.666	1.00 7.94	A	č
ATOM	5442		TYR	700	69. 301	58. 840	51.359	1.00 12.91	A	Č
ATOM	5443		TYR	700	68. 895	59.629	50. 282	1.00 12.31	A	Č
ATOM	5444	CZ	TYR	700	67. 550	59. 688	49. 948	1.00 10.45		Č
ATOM	5445	OH	TYR	700	67. 150	60.495	48. 913		A	0
ATOM	5446	C	TYR	700	68. 743	55.056	52. 468	1.00 8.37 1.00 11.71	A	C
ATOM	5447	Ö	TYR	700	69. 881	54. 594	52. 463	1.00 11.71	A	0
ATOM	5448	N	LEU	700	67. 836	54. 775			A	
ATOM		CA	LEU				51.540	1.00 11.32	A	N C
	5449	CB	LEU	701	68. 142	53. 950	50. 383	1.00 11.03	A	C
ATOM	5450			701	67. 313	52.667	50.378	1.00 8.96	A	C
ATOM	5451	CG	LEU	701	67. 439	51.794	49. 123	1.00 10.04	A	C
ATOM	5452		LEU	701	68.841	51.873	48. 511	1.00 7.25	A	C
ATOM	5453		LEU	701	67.089	50.376	49. 490	1.00 5.44	A	C
ATOM	5454	C	LEU	701	67.811	54. 799	49.170	1.00 13.03	A	C
ATOM	5455	0 N	LEU	701	66.660	55. 219	48. 986	1.00 13.35	A	0
ATOM ATOM	5456 5457	N	LEU	702	68.840	55.068	48. 367	1.00 12.91	A	N
		CA	LEU	702	68. 724	55. 888	47. 169	1.00 11.74	A	C
ATOM	5458	CB	LEU	702	69.806	56. 968	47. 196	1.00 11.17	A	C
ATOM	5459	CG	LEU	702	69.916	57. 965	46.044	1.00 12.13	A	C
ATOM ATOM	5460		LEU	702	68.569	58.656	45.803	1.00 10.71	A	C
ATOM	5461 5462	CDZ	LEU	702	71.006	58. 981	46.368	1.00 10.37	A	C
ATOM	5463	0	LEU	702	68.883	55.003	45.942	1.00 13.49	A	C
ATOM	5464	N	LEU	702	69.854	54. 251	45. 832	1.00 14.04	A	0
ATOM	5465	CA	ILE ILE	703	67.935	55.111	45.016	1.00 13.82	A	N
ATOM	5466	CB	ILE	703 703	67. 934	54. 297	43.806	1.00 12.92	A	C
ATOM	5467	CG2		703 703	66.931	53. 152	43.964	1.00 12.98	A	C C C
ATOM	5468		ILE	703	66.897	52. 305	42. 706	1.00 15.12	A	C
ATOM	5469	CD1		703 703	67. 299	52.322	45.196	1.00 13.52	A	C
ATOM	5470	C	ILE	703	66. 202	51.383	45.663	1.00 13.28	A	C
ATOM	5471	Ö	ILE	703 703	67.561	55.125	42.582	1.00 14.12	A	C
ATOM		N	HIS	703 704	66. 635 68. 265	55.938	42.629	1.00 15.85	A	0
ATOM	5473	CA	HIS	704	67. 987	54.909	41.473	1.00 13.28	A	N
ATOM	5474	CB	HIS	704	68. 670	55.678	40. 265	1.00 11.81	A	C
ATOM	5475		HIS	704 704		57.048	40. 391	1.00 11.13	A	C
ATOM	5476		HIS	704	67.968	58. 156	39.667	1.00 11.66	A	C
ATOM	5477		HIS	70 <del>4</del> 704	67. 446 67. 736	58. 221	38.418	1.00 10.83	A	C
ATOM	5478		HIS	704 704	67. 098	59.387	40. 244	1.00 10.07	A	N
ATOM	5479		HIS	704 704		60. 162	39. 385	1.00 9.04	A	C
ATOM	5480	C	HIS	704	66. 910 68. 464	59.479	38. 270	1.00 11.23	A	N
ATOM	5481	0	HIS	70 <del>4</del> 704		54.965	38. 992	1.00 11.87	A	C
ATOM	5482	N	GLY	70 <del>4</del> 705	69. 503 67. 684	54.306	38. 980	1.00 11.87	A	0
ATOM	5483		GLY	705 705	68. 075	55. 082 54. 486	37.926	1.00 11.49	A	N
ATOM	5484	C	GLY	705	69.066	54. 486 55. 449	36.663	1.00 11.90	A	C
ATOM	5485	Ö	GLY	705	68. 911	56. 660	36. 036 36. 153	1.00 12.16 1.00 13.94	A A	C 0
ATOM	5486	N	THR	706	70.086	50. 000 54. 928	35. 372	1.00 13.34	A A	N .
ATOM	5487	CA	THR	706	71. 101	54. 928 55. 782	34. 770	1.00 13.29	A	N C
111 0111	0 101	J11			11.101	UU. 104	04.110	1.00 14.01	n	U

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					Er.	C 1	119			(Continued)
	<b></b>	<b>an</b>	<b></b>				- 113			
ATOM	5488				72.417			1.00 11.94	A	Ċ
ATOM	5489				72. 230			1.00 12.79	A	0
ATOM	5490		2 THR		72.840			1.00 12.66	A	C
ATOM	5491	C	THR		70.678			1.00 13.02	A	C
ATOM	5492		THR		71. 183			1.00 14.35	A	0
ATOM	5493		ALA		69. 754			1.00 13.82	A	N
ATOM	5494		ALA		69. 289			1.00 15.26	A	C
ATOM	5495		ALA		69. 126			1.00 13.60	A	C
ATOM	5496		ALA		67.970			1.00 16.56	A	C
ATOM	5497	0	ALA		67.154		30. 720	1.00 17.71	A	0
ATOM	5498	N	ASP		67.764			1.00 16.33	A	N
ATOM ATOM	5499 5500	CA CB	ASP	708	66.534			1.00 16.71	A	C
ATOM	5501	CG	ASP ASP	708 708	66.376		34.614	1.00 18.25	A	C
ATOM	5502		ASP	708	64. 957 64. 304	58. 834 59. 612	35.000	1.00 19.59	A	C
ATOM	5503		2 ASP	708	64. 498	58. 317	34. 266	1.00 18.82	A	0
ATOM	5504	C	ASP	708	66. 490	59. 673	36.038	1.00 19.68	A	0
ATOM	5505	ŏ	ASP	708	67. 131	60. 647	32. 408 32. 843	1.00 17.30	A	C
ATOM	5506	Ň	ASP	709	65. 715	59. 722	31. 327	1.00 18.75 1.00 13.98	A	O at
ATOM	5507	CA	ASP	709	65. 553	60. 913	30. 509	1.00 13.36	A	N C
ATOM	5508	CB	ASP	709	65.028	60. 503	29. 137	1.00 11.83	A A	C C
ATOM	5509	CG	ASP	709	63. 700	59. 778	29. 228	1.00 13.61	A	C
<b>ATOM</b>	5510	0D1		709	62.648	60.402	28. 958	1.00 12.39	Ä	0
ATOM	5511		ASP	709	63.706	58. 584	29. 593	1.00 10.85	Ä	0
ATOM	5512	C	ASP	709	64.603	61. 934	31.129	1.00 13.44	A	Č
ATOM	5513	0	ASP	709	64.649	63. 112	30. 786	1.00 14.33	Ä	ŏ
ATOM	5514	N	ASN	710	63.743	61.473	32.034	1.00 12.40	Ä	Ň
ATOM	5515	CA	ASN	710	62.761	62.331	32. 702	1.00 11.63	Ä	Č
ATOM	5516	CB	ASN	710	61.566	61.469	33.094	1.00 10.91	Ä	č
ATOM	5517	CG	ASN	710	60.388	62.276	33. 572	1.00 12.77	Ä	č
ATOM	5518		ASN	710	59.271	61.760	33.651	1.00 14.18	Ä	ŏ
ATOM	5519		ASN	710	60. 621	63.539	33.903	1.00 12.05	Ä	N
ATOM	5520	C	ASN	710	63.395	63.010	33.938	1.00 13.10	A	C
ATOM	5521	0	ASN	710	63. 691	64.211	33.912	1.00 12.53	Α	0
ATOM	5522	N	VAL	711	63. 570	62.246	35.017	1.00 11.10	Α	N
ATOM	5523	CA	VAL	711	64. 221	62. 741	36.225	1.00 9.96	Α	C
ATOM	5524	CB	VAL	711	63.620	62. 128	37. 512	1.00 9.85	Α	C
ATOM	5525		VAL	711	64. 415	62.570	38. 719	1.00 7.61	Α	C
ATOM	5526		VAL	711	62.176	62.567	37.675	1.00 11.26	Α	C
ATOM	5527	C	VAL	711	65.645	62. 237	36.038	1.00 10.48	Α	C
ATOM	5528	0	VAL	711	65. 949	61.068	36. 280	1.00 10.00	A	0
ATOM	5529	N CA	HIS	712	66.518	63. 126	35. 591	1.00 10.94	A	N
ATOM ATOM	5530 5531	CA CB	HIS	712	67.899	62. 758	35. 302	1.00 11.74	A	C
ATOM	5531 5532	CG	HIS HIS	712	68.577	63.961	34.646	1.00 10.79	A	C
ATOM	5533		HIS	712 712	67. 782	64. 529	33.514	1.00 11.58	A	C
ATOM	5534		HIS	712	66. 855 67. 833	63. 955	32. 705	1.00 12.39	A	C
ATOM	5535		HIS	712	66. 966	65. 858 66. 082	33. 154 32. 181	1.00 11.87 1.00 12.19	A	N
ATOM	5536		HIS	712	66. 359	64. 944	31.891	1.00 12.19	A A	C N
					00.000	01.011	01.001	1.00 11.02	n	1.1

					FIG	. 4 ·	- 114	Į		(Continued)
ATOM ATOM	5537 5538		HIS HIS		68. 698 68. 461	62. 222 62. 598	36. 491	1.00 10.63	A	C
ATOM	5539		PHE		69. 631	61.319			A A	O N
ATOM	5540			713	70. 458	60.720	37. 251		A	Č
ATOM	5541				71. 533	59.823	36.634	1.00 11.14	A	Č
ATOM	5542			713	72. 270	58. 989	37. 639		Α	С
ATOM ATOM	5543 5544		1 PHE	713	71.714	57. 813	38. 126		A	C
ATOM	5545		2 PHE 1 PHE	713 713	73. 496	59.407	38. 144		A	C
ATOM	5546		2 PHE	713	72. 367 74. 153	57. 066 58. 667	39. 109 39. 126	1.00 11.98	A	C
ATOM	5547			713	73. 586	57. 495	39. 610	1.00 13.82 1.00 11.04	A	C
ATOM	5548		PHE	713	71. 122	61.818	38.061	1.00 11.04	A A	C C
ATOM	5549		PHE	713		61.640	39. 243	1.00 11.00	A	0
ATOM	5550		GLN	714		62.948	37. 403	1.00 12.47	A	Ň
ATOM	5551	CA		714		64.113	38.022	1.00 10.55	A	Ċ ·
ATOM	5552	CB	GLN	714		65. 321	37. 082	1.00 11.91	Α	C
ATOM ATOM	5553	CG	GLN	714		66.695	37. 740	1.00 10.69	Α	C
ATOM	5554 5555	CD	GLN I GLN	714 714		67.827	36. 891	1.00 9.77	A	C
ATOM	5556		2 GLN	714		67. 693 68. 948	36. 268	1.00 10.50	A	0
ATOM	5557	C	GLN	714		64. 417	36. 870 39. 368	1.00 9.43 1.00 9.91	A	N
ATOM	5558	Ŏ	GLN	714		64. 700	40. 356	1.00 8.86	A A	C 0
ATOM	5559	N	GLN	715		64. 340	39. 395	1.00 10.27	A	N N
ATOM	5560	CA	GLN	715		64.616	40. 599	1.00 10.21	A	C
ATOM	5561	CB	GLN	715	67.771	64. 393	40.315	1.00 10.98	Ä	č
ATOM	5562	CG	GLN	715		65. 219	39.144	1.00 11.10	Ā	Č
ATOM	5563	CD	GLN	715		66. 288	39. 567	1.00 14.59	Α	C
ATOM ATOM	5564 5565		GLN	715	66. 381	66.828	40.671	1.00 16.72	Α	0
ATOM	5566	C	GLN GLN	715 715		66.613	38. 685	1.00 12.90	A	N
ATOM	5567	Õ	GLN	715		63. 781	41.780	1.00 10.65	A	C
ATOM	5568	Ň	SER	716		64. 322 62. 472	42.853 41.600	1.00 12.32 1.00 9.91	Α.	0
<b>MOTA</b>	5569	CA	SER	716		51.630	42.700	1.00 9.91 1.00 12.35	A	N C
ATOM	5570	CB	SER	716		60. 163	42.461	1.00 12.33	A A	C C
ATOM	5571	0G	SER	716		59. 994	42.492	1.00 14.60	Ä	0
ATOM	5572	Ç	SER	716		61.761	42.876	1.00 13.46	Ä	č
ATOM	5573	0	SER	716		51.556	43.976	1.00 14.90	Α	0
ATOM ATOM	5574 5575	N	ALA	717			41.797	1.00 12.22	Α	N
ATOM	5575 5576	CA CB	ALA ALA	717 717			41.870	1.00 13.92	Α	С
ATOM	5577	CB	ALA	717			40.479	1.00 12.46	A	C
ATOM	5578	ŏ	ALA	717			42. 790 43. 560	1.00 13.73	A	C
ATOM	5579	Ň	GLN	718			43. 300	1.00 15.24 1.00 13.27	· А А	0 N
ATOM	5580	CA	GLN	718			43. 565	1.00 13.27	A	N C
ATOM	5581	CB	GLN	718				1.00 13.07	A	C
ATOM	5582	CG	GLN	718	73. 548 6			1.00 15.44	Ä	č
ATOM	5583	CD	GLN	718		7.865	41.867	1.00 13.84	A	Č
ATOM	5584 5585	OE1		718				1.00 16.85	Α	0
ATOM	5585	NE2	GLIN	718	75. 699     6	7.915	40. 755	1.00 17.86	Α	N

			FIG. 4-115	(Continued)
ATOM ATOM ATOM	5587 O 5588 N	GLN 718 GLN 718 ILE 719	73. 350 65. 343 45. 026 1. 00 13. 24 A 73. 941 65. 910 45. 949 1. 00 11. 74 72. 370 64. 460 45. 237 1. 00 12. 01 A	0
ATOM ATOM ATOM	5590 CB	ILE 719 ILE 719 ILE 719	71. 956 64. 110 46. 594 1. 00 11. 94 A 70. 691 63. 201 46. 616 1. 00 12. 50 A 70. 464 62. 673 48. 021 1. 00 11. 09 A	C
ATOM ATOM ATOM	5593 CD1	ILE 719 ILE 719 ILE 719	69. 447 63. 979 46. 174 1. 00 14. 37 A 68. 170 63. 143 46. 154 1. 00 8. 64 A	C C
ATOM ATOM ATOM	5595 0 1 5596 N S	ILE 719 SER 720 SER 720	73. 543 63. 703 48. 367 1. 00 10. 69 73. 508 62. 262 46. 632 1. 00 11. 35 A	0 N
ATOM ATOM	5598 CB S 5599 OG S	SER 720 SER 720	74. 557 61. 405 47. 155 1. 00 11. 02 A 74. 901 60. 325 46. 135 1. 00 10. 89 A 75. 471 60. 894 44. 970 1. 00 13. 75 A	C
ATOM ATOM ATOM	5601 0 S 5602 N L	SER 720 SER 720 LYS 721	75. 804 62. 207 47. 488 1. 00 12. 63 A 76. 429 61. 995 48. 537 1. 00 11. 68 A 76. 159 63. 129 46. 594 1. 00 12. 18 A	0
ATOM ATOM ATOM	5604 CB L 5605 CG L	LYS 721 LYS 721 LYS 721	77. 336 63. 951 46. 800 1. 00 12. 15 A 77. 613 64. 823 45. 571 1. 00 11. 24 A 78. 764 65. 796 45. 756 1. 00 7. 41 A	C
ATOM ATOM ATOM	5607 CE L 5608 NZ L	.YS 721 .YS 721 .YS 721	79. 517 66. 064 44. 451 1. 00 9. 30 A 78. 674 66. 765 43. 392 1. 00 8. 74 A 78. 341 68. 165 43. 739 1. 00 9. 54 A	C C N
ATOM ATOM ATOM	5610 O L 5611 N A	.YS 721 .YS 721 .LA 722	77. 190 64. 816 48. 038 1. 00 13. 24 A 78. 150 64. 982 48. 791 1. 00 14. 49 A 75. 992 65. 351 48. 262 1. 00 13. 05 A	C O N
ATOM ATOM ATOM	5613 CB A 5614 C A	LA 722 LA 722 LA 722	75. 760 66. 198 49. 432 1. 00 13. 21 A 74. 389 66. 870 49. 353 1. 00 9. 37 A 75. 874 65. 369 50. 702 1. 00 14. 04 A	C C C
ATOM ATOM ATOM	5616 N L	LA 722 EU 723 EU 723	76. 430 65. 826 51. 694 1. 00 15. 43 A 75. 360 64. 145 50. 665 1. 00 14. 96 A 75. 429 63. 266 51. 826 1. 00 17. 23 A	0 N . C
ATOM ATOM ATOM		EU 723 EU 723 EU 723	74. 626 61. 984 51. 570 1. 00 16. 86 A 73. 116 62. 205 51. 463 1. 00 18. 78 A	C C
ATOM ATOM ATOM	5621 CD2 LI 5622 C LI		72. 576 62. 663 52. 817 1. 00 16. 86 A 76. 889 62. 926 52. 134 1. 00 17. 26 A	C C C
ATOM ATOM ATOM	5624 N V	AL 724 AL 724	77. 641 62. 559 51. 103 1. 00 17. 41 A 79. 050 62. 234 51. 257 1. 00 16. 64 A	O N C
ATOM ATOM ATOM	5627 CG1 VA 5628 CG2 VA 5629 C VA	AL 724 AL 724	81. 187 61. 819 49. 987 1. 00 13. 56 79. 178 60. 449 49. 519 1. 00 14. 78	C C C
ATOM ATOM ATOM	5630 O VA 5631 N AS 5632 CA AS	AL 724 SP 725	80. 665 63. 337 52. 662 1. 00 19. 09 A 79. 411 64. 632 51. 318 1. 00 19. 19 A	C O N
ATOM ATOM	5633 CB AS 5634 CG AS	SP 725	80. 051 65. 848 51. 776 1. 00 20. 26 A 79. 627 67. 032 50. 919 1. 00 22. 40 A 80. 259 67. 004 49. 549 1. 00 26. 44 A	C C C

		•		FIC 4-116	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5635 5636 5637 5638 5639 5641 5642 5643 5645 5645 5646 5651 5653 5656 5657 5656 5657 5666 5661	OD1 ASP OD2 ASP C ASP O ASP N VAL CA VAL CB VAL CG1 VAL CG2 VAL O VAL N GLY CA GLY C GLY O GLY N VAL CA VAL CB VAL CA VAL CB VAL CA VAL CB VAL CB VAL CG1 VAL CG2 VAL CG1 VAL CG3 VAL CG3 VAL CG4 VAL CG5 VAL CG6 VAL CG7 VAL CG7 VAL CG8 VAL CG8 VAL CG9 VAL CA VAL	725 725 725 726 726 726 726 726 727 727 727 727 728 728 728 728 728 728	FIG. 4 - 116  81. 149 66. 151 49. 319 1. 00 26. 28 A 79. 867 67. 839 48. 704 1. 00 30. 70 A 79. 805 66. 171 53. 238 1. 00 19. 86 A 80. 486 67. 024 53. 792 1. 00 23. 33 A 78. 841 65. 516 53. 873 1. 00 17. 95 A 76. 603 65. 790 55. 285 1. 00 17. 97 A 77. 178 66. 341 55. 567 1. 00 18. 54 A 76. 992 67. 680 54. 875 1. 00 16. 64 A 76. 121 65. 339 55. 120 1. 00 18. 24 A 78. 812 64. 549 56. 124 1. 00 17. 82 A 78. 412 64. 504 57. 283 1. 00 19. 86 A 79. 439 63. 541 55. 535 1. 00 17. 13 A 79. 711 62. 317 56. 263 1. 00 16. 84 A 78. 509 61. 489 56. 681 1. 00 17. 94 A 78. 483 60. 961 57. 794 1. 00 19. 74 A 77. 517 61. 371 55. 802 1. 00 16. 62 A 76. 331 60. 571 56. 085 1. 00 17. 26 A 75. 030 61. 302 55. 643 1. 00 18. 46 A 73. 838 60. 338 55. 668 1. 00 16. 22 A 74. 753 62. 476 56. 579 1. 00 18. 70 A 76. 411 59. 230 55. 347 1. 00 18. 03 A 76. 667 59. 186 54. 143 1. 00 18. 40 A 76. 211 58. 135 56. 069 1. 00 18. 22 A 76. 246 56. 822 55. 441 1. 00 19. 90 A 76. 734 55. 752 56. 420 1. 00 22. 57 76. 819 54. 376 55. 778 1. 00 25. 97 77. 340 54. 278 54. 649 1. 00 27. 13	0 0 C 0 N C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5659 5660 5661 5662 5663 5664 5665 5666 5667 5668 5670 5671 5672 5674 5675 5676	CB ASP CG ASP OD1 ASP OD2 ASP C ASP O ASP N PHE CA PHE CB PHE CC PHE CD1 PHE CD2 PHE CD1 PHE CC1 PHE CC2 PHE CC2 PHE CC PHE C PHE C PHE C PHE C PHE N GLN	729 729 729 729 729 730 730 730 730 730 730 730 730 730 730	76. 734       55. 752       56. 420       1. 00       22. 57       A         76. 819       54. 376       55. 778       1. 00       25. 97       A         77. 340       54. 278       54. 649       1. 00       27. 13       A         76. 372       53. 388       56. 398       1. 00       30. 03       A         74. 839       56. 504       54. 984       1. 00       19. 16       A         73. 868       56. 863       55. 649       1. 00       21. 91       A         74. 723       55. 838       53. 846       1. 00       18. 27       A         73. 416       55. 499       53. 299       1. 00       16. 06       A         72. 796       56. 734       52. 639       1. 00       14. 49       A         73. 590       57. 265       51. 480       1. 00       12. 02       A         74. 691       58. 082       51. 694       1. 00       11. 55       A         74. 691       58. 537       50. 621       1. 00       13. 40       A         75. 120       58. 175       49. 317       1. 00       9. 85       A         73. 565       54. 388       52. 281       1. 00       16	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5677 5678 5679 5680 5681 5682 5683	CA GLN CB GLN CG GLN CD GLN OE1 GLN NE2 GLN C GLN	731 731 731 731 731 731 731	72. 484       52. 813       50. 813       1. 00 17. 82       A         71. 514       51. 708       51. 208       1. 00 20. 04       A         71. 641       51. 257       52. 644       1. 00 25. 37       A         73. 019       50. 737       52. 968       1. 00 28. 25       A         73. 554       49. 883       52. 256       1. 00 32. 85       A         73. 603       51. 238       54. 055       1. 00 30. 12       A         72. 091       53. 382       49. 458       1. 00 17. 65       A	C C C O N C

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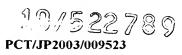
(Co										
					FIG	. 4 -	117	,		(OSIIVIII aou)
ATOM ATOM	5684 5685		GLN ALA	731 732		54. 191	49. 355		A	0
ATOM	5686			732		52. 962 53. 444	48. 421 47. 088		A A	N C
ATOM	5687			732		54. 409	46. 626		A	C C
ATOM	5688		ALA	732	72.419	52. 282	46. 131	1.00 15.21	A	č
ATOM	5689		ALA	732	72.940	51.207	46.396		A	Ö
ATOM	5690		MET	733	71. 737	52. 504	45.019	1.00 14.57	Α	N
ATOM	5691			733		51.483	44.008	1.00 14.86	Α	C
ATOM ATOM	5692 5693			733 733	70. 490	50. 499	44. 383	1.00 15.14	A	C
ATOM	5694			733		49.386	43. 353	1.00 18.04	A	C
ATOM	5695		MET	733		48. 476 47. 307	42. 961 44. 310	1.00 22.04 1.00 17.75	A	S
ATOM	5696		MET	733		52. 153	42. 683	1.00 17.75	A A	C C
ATOM	5697		MET	733		52.915	42.574	1.00 14.93	Ä	0
ATOM	5698		TRP	734		51.884	41.680	1.00 13.82	A	N
ATOM	5699		TRP	734	71.890 5	52. 447	40.356	1.00 13.13	Ä	Ċ
ATOM	5700	CB	TRP	734		3. 117	39.827	1.00 10.39	Α	C
ATOM ATOM	5701 5702	CC	TRP	734		2. 159	39. 267	1.00 8.77	Α	С
ATOM	5702		2 TRP 2 TRP	734 734		1.726	39.894	1.00 7.74	A	C
ATOM	5704		TRP	734		50. 757 52. 062	39. 053 41. 087	1.00 9.97	A	C
ATOM	5705		TRP	734		1.463	38. 095	1.00 8.70 1.00 10.56	A	C
ATOM	5706		TRP	734		0.613	37.961	1.00 10.30	A A	C N
ATOM	5707		TRP	734		0.119	39. 369	1.00 12.07	A	C
ATOM	5708		TRP	734		1.428	41.400	1.00 9.32	Ä	č
ATOM	5709		TRP	734		0.468	40.545	1.00 9.49	Ä	č
ATOM	5710	C	TRP	734		1.291	39. 445	1.00 14.06	Α	C
ATOM ATOM	5711 5712	0 N	TRP	734		0. 155	39. 653	1.00 13.91	Α	0
ATOM	5713	N CA	TYR TYR	735 735	70.635 5	1.570	38. 461	1.00 15.15	A	N
ATOM	5714	CB	TYR	735		0.544	37. 504	1.00 15.51	A	C
ATOM	5715	CG	TYR	735		0. 326 9. 439	37. 556 38. 709	1.00 14.10	A	C
ATOM	5716		TYR	735		8. 081	38. 708	1. 00 14. 76 1. 00 14. 45	A	C
ATOM	5717	CE 1	TYR	735		7. 278	39. 816	1.00 14.43	A A	C
ATOM	5718		TYR	735		9.971	39.848	1.00 15.84	A	C
ATOM	5719		TYR	735		9.180	40.960	1.00 14.52	Ä	Č
ATOM	5720 5721	CZ	TYR	735		7. 835	40.938	1.00 16.33	A	Č
ATOM ATOM	5721 5722	OH C	TYR	735			42.048	1.00 17.53	Α	0
ATOM	5723	0	TYR TYR	735 735			36. 104	1.00 16.31	A	C
ATOM	5724	N	THR	736			35.466	1.00 15.82	A	0
ATOM	5725	CA	THR	736				1.00 15.44	A	N
ATOM	5726	CB	THR	736				1.00 15.13 1.00 14.68	A A	C C
ATOM	5727	0G1	THR	736				1.00 15.48	A	0
ATOM	5728		THR	736	74.156 49	961	32.713	1.00 14.72	Ä	C
ATOM	5729	C	THR	736	71.365 50	). 549	33. 206	1.00 15.41	Ä	č
ATOM ATOM	5730 5731	N N	THR	736				1.00 16.44	Α	0
ATOM	5732	N CA	ASP ASP	737				1.00 15.92	A	N
III OM	0104	on	UOI	737	70. 475 51	.719	31. 238	1.00 16.48	Α	C

(Continued) FIG. 4-118 5733 CB **ATOM** ASP 737 70.884 50.677 30.200 1.00 15.90 C A 5734 CG ASP 737 72.232 29.574 **ATOM** 50.972 1.00 20.37 C OD1 ASP 5735 737 72.679 28.747 **ATOM** 50.147 1.00 24.29 0 A **ATOM** 5736 OD2 ASP 737 72.847 52.020 29.895 1.00 18.74 0 Α **ATOM** 5737 **ASP** 737 68.974 51.632 31.467 1.00 17.71 C A 68.205 5738 1.00 18.86 **ATOM ASP** 737 30.515 0 51.507 0 A 5739 **ATOM** N **GLU** 738 68. 553 32. 722 1.00 18.39 51.692 A N ATOM 5740 CA GLU 738 67.135 51.644 33.033 1.00 19.00 C Α 66.909 **ATOM** 5741 CB **GLU** 738 50.999 34.407 1.00 20.24 C Α **ATOM** 5742 CG GLU 738 66.904 34.380 49.485 1.00 20.93 C A **ATOM** 5743 CD **GLU** 738 65.741 48.937 33.565 1.00 24.58 C Α **ATOM** 5744 OE1 GLU 738 64.588 49.289 33.878 1.00 27.21 0 Α **ATOM** 5745 0E2 GLU 738 65.970 32.611 48.163 1.00 26.16 0 Α ATOM 5746 C **GLU** 738 66.624 53.076 33.025 1.00 19.38 C Α **ATOM** 67.327 5747 0 **GLU** 738 53.991 33.461 1.00 20.83 A 0 **ATOM** 5748 N **ASP** 739 65.414 53.288 32. 525 1.00 18.55 N Α **ATOM** 5749 CA ASP 739 64.892 54.642 32.493 1.00 17.49 C Α **ATOM** 5750 **ASP** 64.074 CB 739 54.863 31.222 1.00 18.32 C Α **ATOM** 5751 CG ASP 739 62.689 54. 271 31.293 C 1.00 21.44 A **ATOM** 5752 OD1 ASP 739 61.995 54.340 30.257 1.00 24.73 0 Α 62.285 **ATOM** 5753 OD2 ASP 739 53.752 32.358 1.00 21.35 Α 0 **ATOM** 5754 C **ASP** 739 64.088 54.976 33.750 1.00 17.35 C Α **ATOM** 5755 0 **ASP** 739 64.191 54. 282 34.762 1.00 15.74 Α 0 **ATOM** 5756 N HIS 63. 291 740 56.034 33.687 1.00 16.96 N Α **ATOM** 5757 CA HIS 740 62.521 56.469 34.842 1.00 18.24 C Α **ATOM** 5758 CB HIS 740 61.746 57.736 34.511 1.00 16.88 C Α **ATOM** 5759 61.145 CG HIS 740 58.392 35.710, 1.00 17.57 Α C **ATOM** 5760 CD2 HIS 740 59.883 58.812 35.961 1.00 16.26 Α C **ATOM** ND1 HIS 5761 740 61.881 58.687 36.837 1.00 17.31 N Α **ATOM** 5762 CE1 HIS 740 61.097 59.262 37.732 1.00 18.51 C Α **ATOM** 5763 NE2 HIS 740 59.880 59.349 37. 224 1.00 17.94 Α N **ATOM** 5764 C HIS 61.557 740 55.449 35.426 1.00 19.90 Α C **ATOM** 5765 0 HIS 740 61.191 55.539 36.599 1.00 20.00 Α 0 **ATOM** 5766 N **GLY** 741 61.151 54.481 34.614 1.00 19.40 N Α **ATOM** 5767 CA GLY 741 60.216 53.484 35.084 1.00 18.82  $\mathbb{C}$ Α **ATOM** 5768 **GLY** C 741 60.849 52.218 35.609 1.00 20.36 Α C **ATOM** 5769 0 **GLY** 741 60.165 51.404 36.237 1.00 22.79 Α 0 **ATOM** 5770 N ILE 742 62.145 52.045 35.368 1.00 19.61 Α N **ATOM** 5771 CA ILE 742 62.854 50.849 35.821 1.00 17.74 Α C **ATOM** 5772 CB ILE 742 63.273 50.981 37.294 C 1.00 14.46 Α **ATOM** 5773 CG2 ILE 742 64.279 49.917 37.638 1.00 14.37 C Α ATOM 5774 CG1 ILE 742 52.370 63.865 37.540 1.00 13.43 C Α **ATOM** 5775 CD1 ILE 742 64.540 52.552 Č 38.887 1.00 9.55 Α **ATOM** 5776 C ILE 742 61.907 49.658 35.676 1.00 19.11 C Α **ATOM** 5777 0 ILE 742 61.805 48.825 36.571 1.00 18.97 Α 0 **ATOM** 5778 N **ALA** 743 61.217 49.594 34.534 1.00 20.16 Α N **ATOM** 5779 CA ALA 743 60.246 48.538 34.268 1.00 19.71 Α C **ATOM** 5780 CB ALA 743 1.00 19.65 59.004 49.141 33.630 C Α **ATOM** 5781 **ALA** 743 C 60.717 47.350 1.00 20.08 33. 430 C Α

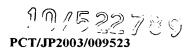
					FIG	. 4 -	119			(Continued)
ATOM	5782	0	ALA	743	59.898	46. 536	33. 006	1.00 20.99	A	0
ATOM	5783	N	SER	744	62.009	47. 230	33. 163	1.00 19.12	A	N
ATOM	5784	CA	SER	744	62. 438	46.074	32.389	1.00 17.34	A	C
ATOM	5785 5786	CB OG	SER	744	63. 931	46. 132	32.068	1.00 14.62	A	C
ATOM ATOM	5787	C	SER SER	744 744	64. 699 62. 132	45. 597 44. 896	33. 125 33. 300	1.00 18.04	A	0
ATOM	5788	Ö	SER	744	62. 137	45. 032	34. 519	1.00 16.58 1.00 15.47	A	C
ATOM	5789	N	SER	745	61.853	43. 742	32. 715	1.00 19.10	A A	O N
ATOM	5790	CA	SER	745		42. 558	33. 503	1.00 20.03	A	C
ATOM	5791	CB	SER	745		41.343	32. 598	1.00 20.03	A	Č
ATOM	5792	0G	SER	745	61.110	40. 209	33. 377	1.00 27.90	A	Õ
ATOM	5793	Č	SER	745		42. 245	34. 624	1.00 19.80	A	č
ATOM	5794	Ō	SER	745		42.078	35. 781	1.00 19.78	A	Ŏ
ATOM	5795	N	THR	746		42.158	34. 277	1.00 19.56	A	N
ATOM	5796	CA	THR	746	64.796	41.849	35. 265	1.00 19.48	A	C
ATOM	5797	CB	THR	746	66.125	41.538	34.575	1.00 20.06	Α	C C
ATOM	5798	0G1		746	66.463	42.615	33.691	1.00 23.41	Α	0
ATOM	5799		THR	746	66.009	40. 259	33.772	1.00 16.20	A	C
ATOM	5800	C	THR	746	64.996	42.966	36. 288	1.00 19.59	Α	C
ATOM	5801	0	THR	746	65.066	42. 706	37. 488	1.00 20.63	Α	0
ATOM	5802	N	ALA	747	65. 070	44. 208	35. 821	1.00 18.73	A	N
ATOM	5803	CA	ALA	747	65. 286	45. 334	36. 723	1.00 18.03	A	Ċ
ATOM	5804	CB	ALA	747	65. 554	46.609	35. 919	1.00 15.38	Ą	C
ATOM ATOM	5805 5806	C	ALA	747	64.113	45. 540	37. 681	1.00 17.35	A	C
ATOM	5807	O N	ALA HIS	747 748	64. 291	45. 989	38. 814	1.00 18.52	A	0
ATOM	5808	CA	HIS	748		45. 206 45. 342	37. 224 38. 046	1.00 16.75	A	N
ATOM	5809	CB	HIS	748		45. 005	37. 220	1.00 16.92 1.00 13.48	A	C
ATOM	5810	CG	HIS	748		44. 968	38. 020	1.00 13.48	A A	C C
ATOM	5811	CD2		748		43. 941	38. 348	1.00 14.10	A	C
ATOM	5812	ND1		748		46. 094	38. 595	1.00 12.00	Ä	N
ATOM	5813	CE1		748		45. 762	39. 241	1.00 13.05	Ä	Č
ATOM	5814	NE2		748		44. 461	39. 107	1.00 14.46	Ä	Ň
ATOM	5815	C	HIS	748		44.415	39.263	1.00 18.16	Ä	Ċ
ATOM	5816	0	HIS	748	61.525	44.816	40.394	1.00 20.72	Ā	0
ATOM	5817	N	GLN	749	62.148	43. 165	39.025	1.00 18.81	Α	N
ATOM	5818	CA	GLN	749		42. 201	40.105	1.00 19.53	Α	C
ATOM	5819	CB	GLN	749		40. 801	39.519	1.00 20.05	Α	C
ATOM	5820	CG	GLN	749		40. 428	38.550	1.00 21.82	Α	C
ATOM	5821	CD	GLN	749		39. 190	37. 757	1.00 20.87	Α	C
ATOM	5822		GLN	749		38. 187	38. 316	1.00 22.37	A	0
ATOM	5823 5824	NE2 C		749 740		39. 249	36. 447	1.00 20.00	A	N
ATOM ATOM	5825	0	GLN GLN	749 749		42.524	41.008	1.00 19.07	A	C
ATOM	5826	N	HIS	750		42. 388 42. 972	42. 231	1.00 17.88	A	0
ATOM	5827		HIS	750		42. 972 43. 275	40.399 41.160	1.00 18.97	A A	N C
ATOM	5828	CB	HIS	750		43. 597	40. 226	1.00 16.68 1.00 14.65	A A	C C
ATOM	5829		HIS	750		43. 496	40. 889	1.00 14.03	A	C
ATOM	5830	CD2		750		42. 593	40. 749	1. 00 12. 94	A	č

				FIG. 4-120	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5831 5832 5833 5834 5835 5836 5837 5838 5839 5840 5841	ND1 HIS CE1 HIS NE2 HIS C HIS O HIS N ILE CA ILE CB ILE CG2 ILE CG1 ILE CD1 ILE	750 750 750 750 750 751 751 751 751	68. 615	N C N C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	5843 5844 5845 5846	C ILE 0 ILE N TYR CA TYR CB TYR CG TYR	751 751 752 752 752 752 752	63. 751      46. 341      43. 767      1. 00 16. 09      A 64. 062      46. 632      44. 919      1. 00 16. 37      A 62. 596      45. 759      43. 480      1. 00 16. 32      A 61. 651      45. 449      44. 551      1. 00 16. 16      A 60. 323      44. 967      43. 968      1. 00 13. 79      A 59. 443      46. 126      43. 593      1. 00 12. 59      A	C O N C C
ATOM ATOM ATOM ATOM ATOM	5848 5849 5850 5851 5852	CD1 TYR CE1 TYR CD2 TYR CE2 TYR CZ TYR	752 752 752 752 752	58. 840       46. 899       44. 580       1. 00       11. 61       A         58. 102       48. 026       44. 258       1. 00       9. 67       A         59. 279       46. 510       42. 260       1. 00       12. 75       A         58. 543       47. 644       41. 930       1. 00       10. 28       A         57. 964       48. 395       42. 940       1. 00       9. 02       A	C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	5854 5855 5856 5857 5858	OH TYR C TYR O TYR N THR CA THR CB THR	752 752 752 753 753 753	57. 278       49. 542       42. 642       1. 00 12. 10       A         62. 226       44. 429       45. 522       1. 00 16. 42       A         61. 927       44. 467       46. 719       1. 00 16. 42       A         63. 056       43. 526       45. 004       1. 00 15. 74       A         63. 700       42. 521       45. 835       1. 00 16. 30       A         64. 502       41. 510       44. 985       1. 00 15. 57       A	0 C 0 N C C
ATOM ATOM ATOM ATOM ATOM ATOM	5860 ( 5861 ( 5862 ( 5863 N	OG1 THR CG2 THR C THR O THR N HIS CA HIS	753 753 753 753 754 754	63. 601	0 C C 0 N
ATOM ATOM ATOM ATOM ATOM ATOM	5865 ( 5866 ( 5867 ( 5868 N 5869 (	CB HIS CG HIS CD2 HIS ND1 HIS CE1 HIS NE2 HIS	754 754 754 754 754 754	67. 189 45. 857 46. 023 1. 00 19. 13 A 68. 449 46. 379 46. 644 1. 00 19. 62 A 68. 786 47. 619 47. 070 1. 00 18. 70 A 69. 539 45. 576 46. 904 1. 00 18. 44 A 70. 493 46. 298 47. 462 1. 00 17. 52 A	C C C C N C
ATOM ATOM ATOM ATOM ATOM	5871 C 5872 C 5873 N 5874 C 5875 C	C HIS HIS MET CA MET CB MET	754 754 755 755 755	65. 663 45. 828 48. 007 1. 00 19. 38 A 66. 088 45. 876 49. 158 1. 00 19. 63 A 64. 589 46. 502 47. 615 1. 00 18. 83 A 63. 854 47. 342 48. 558 1. 00 19. 68 A 62. 758 48. 136 47. 839 1. 00 16. 86 A	N C O N C C
ATOM ATOM ATOM ATOM	5877 S	CG MET ED MET EE MET EMET	755 755 755 755	63. 283	C S C C

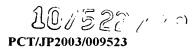
					FIC	· 1 ·	121			(Continued)
ATOM	E00 <b>0</b>	0	) deserv	מרר				1 00 00 75	_	•
ATOM ATOM	5880 5881	O N	MET SER	755 756	63. 112 62. 842	46. 969 45. 276		1.00 20.56 1.00 20.59	A	0 N
ATOM	5882	CA	SER	756	62. 240	44. 380		1.00 20.39	A	N C
ATOM	5883	CB	SER	756	61.740	43. 106		1.00 21.43	A A	C
ATOM	5884	0Ğ	SER	756	60. 598	43. 373		1.00 21.68	Ä	Ö
ATOM	5885	C	SER	756	63. 224	44.023	51.444	1.00 22.50	Ä	č
ATOM	5886	0	SER	756	62.858	44.022	52.623	1.00 22.47	Ä	ŏ
ATOM	5887	N	HIS	757	64.466	43.716	51.073	1.00 22.47	A	N
ATOM	5888	CA	HIS	757	65.483	43.384	52.065	1.00 23.01	Ā	C
ATOM	5889	CB	HIS	757	66. 828	43.032	51.407	1.00 21.90	Α	C
ATOM	5890		HIS	757	66. 837	41.721	50.682	1.00 24.99	Α	C
ATOM	5891		HIS	757 757	67. 344	41.375	49. 473	1.00 26.07	Α	С
ATOM	5892		HIS	757 757	66. 314	40. 563	51. 220	1.00 26.51	A	N
ATOM ATOM	5893 5894		HIS HIS	757 757	66. 497	39. 564	50.375	1.00 25.15	A	C
ATOM	5895	C	HIS	757	67. 120 65. 689	40. 029 44. 596	49. 307 52. 966	1.00 25.93	A	N
ATOM	5896	ŏ	HIS	757	65. 823	44. 330	54. 186	1.00 23.03 1.00 24.03	A	C
ATOM	5897	N	PHE	758	65. 704	45. 771	52. 356	1.00 22.28	A	O N
ATOM	5898	CA	PHE	758	65. 920	46. 995	53. 106	1.00 24.10	A A	C
ATOM	5899	CB	PHE	758	66.005	48. 190	52. 161	1.00 20.12	A	Č
<b>ATOM</b>	5900	CG	PHE	758	66.455	49.448	52. 828	1.00 17.08	Ä	č
ATOM	5901		PHE	758	67.803	49.657	53.106	1.00 15.49	Ä	č
ATOM	5902		PHE	758	65. 537	50.429	53.176	1.00 15.44	A	Č
ATOM	5903		PHE	758	68. 233	50.825	53. 717	1.00 14.07	Α	C
ATOM	5904		PHE	758 758	65. 955	51.607	53. 789	1.00 17.18	Α	C
ATOM ATOM	5905 5906	CZ	PHE	758 750	67. 308	51.806	54.060	1.00 15.05	A	C
ATOM	5907	C 0	PHE PHE	758 758		47. 254	54. 135	1.00 26.28	A	C
ATOM	5908	N	ILE	759		47. 546 47. 162	55. 295 53. 706	1.00 28.09	A	0
ATOM	5909	CA	ILE	759		47. 102	53. 706 54. 605	1.00 27.69 1.00 29.02	A	N
ATOM	5910	CB	ILE	759		47. 271	53.853	1.00 28.02	A A	C C
ATOM	5911		ILE	759		47. 207	54. 836	1.00 29.09	A	C
ATOM	5912		ILE	759		48. 446	52.884	1.00 28.85	A	Č
ATOM	5913		ILE	759		49.809	53. 535	1.00 27.28	Ä	Č
ATOM	5914	C	ILE	759		46.420	55.774	1.00 31.10	Ä	Č
ATOM	5915	0	ILE	759		46.822	56.925	1.00 30.20	A	0
ATOM	5916	N	LYS	760		45. 140	55.464	1.00 32.71	Α	N
ATOM	5917	CA	LYS	760		44.079	56.465	1.00 33.04	Α	С
ATOM ATOM	5918 5919	CB CG	LYS	760		42. 715	55. 780	1.00 34.00	A	C
ATOM	5920	CD	LYS LYS	760 760		42.300	55. 164	1.00 37.68	A	C
ATOM	5921	CE	LYS	760		41. 455 40. 229	53. 916	1.00 40.82	A	C
ATOM	5922	NZ	LYS	760		39.600		1.00 42.70 1.00 44.73	A	C
ATOM	5923	C	LYS	760		44. 205		1.00 44.73	A A	N C
ATOM	5924		LYS	760		43.676		1.00 34.38	Ä	0
ATOM	5925	N	GLN	761		44. 902		1.00 33.26	Ä	N
ATOM	5926		GLN	761	66. 106	45. 100	57.744	1.00 33.22	A	Ċ
ATOM	5927	CB	GLN	761	67. 295	45. 422	56.830	1.00 35.03	A	С
ATOM	5928	CG	GLN	761	68. 638	45. 584	57. 525	1.00 38.28	Α	С



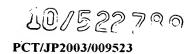
						<b>a</b> 4	1.0			(Continued)
					FI	G. 4	- 122	2		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5929 5930 5931 5932 5933 5934 5935 5936 5939 5940 5941 5942 5943	OE NE C O N	GLN GLN GLN CYS CYS CYS CYS PHE PHE PHE	761 761 761 761 762 762 762 762 762 763 763 763	68. 759 68. 487 69. 177 65. 819 66. 064 65. 276 64. 945 63. 888 63. 892 64. 470 63. 606 62. 993 61. 948 60. 618 59. 919	46. 893 47. 969 46. 811 46. 251	58. 283 57. 739 59. 544 58. 701 59. 898 58. 161 58. 953 60. 023 61. 087	3 1.00 42.12 1.00 43.62 1.00 44.19 1.00 32.55 1.00 32.49 1.00 32.03 1.00 33.26 1.00 32.69 1.00 32.22 1.00 33.90 1.00 40.21 1.00 32.59	A A A A A A A A A A	C O N C O C C C S N C C
ATOM ATOM ATOM ATOM	5944 5945 5946 5947 5948	CD: CD: CE: CE: CZ	PHE PHE PHE PHE	763 763 763 763 763	60. 371 58. 800 59. 718 58. 139 58. 598	49. 148 47. 808 50. 300 48. 951 50. 202	59. 923 58. 703 59. 510 58. 284 58. 688	1.00 29.45 1.00 28.65 1.00 29.27 1.00 28.76 1.00 30.54	A A A A	C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	5949 5950 5951 5952 5953 5954	C O N CA CB	PHE PHE SER SER SER SER	763 763 764 764 764 764	62. 293 61. 499 63. 463 63. 907 65. 356 66. 215	45. 688 45. 276 45. 102 43. 941 43. 598 44. 709	61. 535 62. 381 61. 290 62. 052 61. 701 61. 913	1.00 36.77 1.00 36.29 1.00 39.62 1.00 43.05 1.00 44.44	A A A A	C O N C C
ATOM ATOM ATOM ATOM ATOM	5955 5956 5957 5958 5959	C O N CA CB	SER SER LEU LEU LEU	764 764 765 765 765	63. 799 64. 195 63. 264 63. 092 61. 624	44. 314 45. 412 43. 412 43. 716 44. 067	63. 522 63. 916 64. 335 65. 747 66. 017	1.00 48.06 1.00 45.02 1.00 44.75 1.00 48.04 1.00 51.59 1.00 50.97	A A A A A	O C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	5960 5961 5962 5963 5964 5965		LEU LEU LEU LEU LEU PRO	765 765 765 765 765 766	61. 332 61. 996 59. 834 63. 533 62. 866 64. 667	44. 846 46. 215 44. 996 42. 588 41. 557	67. 299 67. 221 67. 481 66. 676 66. 779	1.00 50.79 1.00 50.85 1.00 50.72 1.00 54.72 1.00 55.73	A A A A	C C C C
ATOM ATOM ATOM ATOM ATOM	5966 5967 5968 5969 5970	CD CA CB CG	PRO PRO PRO PRO PRO	766 766 766 766 766	65. 545 65. 204 66. 600 66. 386	42. 776 43. 960 41. 775 42. 309 43. 797 41. 639	67. 372 67. 317 68. 301 68. 604 68. 568 69. 565	1.00 57.13 1.00 57.88 1.00 58.61 1.00 58.49 1.00 58.47 1.00 60.07	A A A A	N C C C C
ATOM ATOM TER ATOM ATOM	5971 5972 5973 5974 5975	0	PRO PRO PRO ASP ASP	766 766 766 38 38	63. 341 64. 711 95. 909	41. 033 42. 370 40. 805 45. 132 46. 047	69. 681 70. 427 76. 302 75. 698	1.00 60.04 1.00 61.88 1.00 32.66	A A A B	0 0 C
ATOM ATOM	5976 5977	OD1 OD2	ASP	38 38	96.905	40. 047 47. 269 45. 544	75. 977 74. 942	1.00 32.61 1.00 30.88 1.00 31.65	B B B	C 0 0



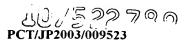
					FΙ	G. 4	-123	3		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5979 5980 5981 5982 5983 5984 5985 5986 5987 5988 5990 5991 5992 5993 5994 5995 5996 6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6013 6014 6015 6016 6017 6018	NH2 CON A CCB CCC N CA B CCC N CA B CCC N	ASP ASP ASP SER SER SER ARG ARG ARG ARG LYS LYS LYS LYS THR THR TYR TYR TYR TYR TYR	38 38 38 39 39 39 39 40 40 40 40 40 40 41 41 41 41 41 41 42 42 42 42 42 42 42 42 43 43 43 43	94. 533 93. 523 94. 844 95. 503 94. 844 93. 974 94. 289 93. 615 95. 312 95. 685 97. 004 98. 228 99. 470 99. 404 100. 260 101. 247 100. 134 94. 604 93. 881 94. 699 94. 505 94. 374 93. 307 94. 028 95. 231 93. 118 93. 318 94. 505 94. 374 93. 518 93. 307 94. 505 94. 374 93. 307 94. 505 94. 374 93. 518 93. 318 94. 699 94. 505 94. 374 93. 318 95. 231 96. 231 97. 28 97. 28 97. 28 97. 28 97. 307 97.	46. 724 46. 648 44. 428 45. 557 47. 807 48. 982 49. 652 50. 119 50. 686 50. 257 50. 429 49. 917 48. 479 47. 812 48. 461 46. 497 50. 757 49. 793 51. 907 52. 076 53. 556 54. 209 55. 663 55. 779 54. 922 51. 294 51. 072 50. 859 50. 130 49. 083 48. 129 51. 178 52. 363 55. 750 51. 662 51. 153 52. 062	77. 638 76. 938 78. 423 77. 717 78. 344 78. 372 79. 741 80. 003 77. 220 76. 499 75. 442 74. 788 75. 670 74. 969 74. 728 73. 963 73. 361 73. 806 74. 376 74. 150 73. 725 72. 658 72. 274 71. 365 69. 251 71. 458 71. 324 70. 595 69. 251 71. 458 71. 324 70. 595 69. 399 68. 540 70. 101 68. 304 68. 541 67. 116 65. 986 65. 020 63. 853	1. 00 31. 81 1. 00 32. 54 1. 00 32. 95 1. 00 32. 06 1. 00 31. 40 1. 00 30. 28 1. 00 31. 88 1. 00 34. 53 1. 00 29. 15 1. 00 26. 40 1. 00 24. 29 1. 00 23. 19 1. 00 21. 28 1. 00 21. 28 1. 00 22. 73 1. 00 22. 52 1. 00 23. 29 1. 00 23. 29 1. 00 23. 29 1. 00 23. 55 1. 00 24. 31 1. 00 25. 29 1. 00 24. 31 1. 00 25. 29 1. 00 24. 31 1. 00 25. 29 1. 00 27. 49 1. 00 24. 69 1. 00 24. 69 1. 00 22. 69 1. 00 22. 23 1. 00 22. 29 1. 00 22. 69 1. 00 22. 33 1. 00 20. 28 1. 00 20. 28 1. 00 20. 28 1. 00 20. 32 1. 00 20. 32 1. 00 20. 32 1. 00 19. 19	B B B B B B B B B B B B B B B B B B B	CONCNCCOCONCCCNCNCCCCCCNCONCCOCCONCCCC
ATOM ATOM ATOM ATOM	6020 C 6021 C 6022 C 6023 C 6024 O	E1 D2 E2 Z H	TYR TYR TYR TYR TYR TYR	43 43 43 43 43	94. 888 95. 133 96. 403 96. 655 96. 013 96. 247	51. 863 52. 694 53. 126 53. 972 53. 742 54. 553	62. 629 61. 546 63. 970 62. 891 61. 682 60. 600	1. 00 22. 19 1. 00 21. 23 1. 00 21. 09 1. 00 21. 69 1. 00 22. 25 1. 00 25. 44	B B B B B	C C C C C
ATOM ATOM	6025 C 6026 O		TYR TYR	43 43	92.770 92.396	51. 631 50. 640	65. 349 64. 725	1.00 18.52 1.00 17.41	B B	C 0



(Continued) FIG. 4-124 6027 ATOM N THR 44 92.007 52.709 65.532 1.00 17.70 В N **ATOM** 6028 CA THR 44 90.633 52.802 65.019 1.00 18.55 В C 6029 THR **ATOM** CB 44 89.762 53.748 65.877 C 1.00 16.45 B 90.195 **ATOM** 6030 OG1 THR 44 55.096 65.676 1.00 16.93 В 0 **ATOM** 6031 CG2 THR 44 89.875 53.409 67.346 1.00 14.45 В C **ATOM** 6032 THR 90.521 44 53.310 63.593 1.00 19.62 В C **ATOM** 6033 0 THR 44 91.511 53.741 62.992 1.00 21.89 В 0 **ATOM** 6034 N LEU 45 89.296 63.06753. 277 1.00 19.06 В N ATOM 6035 CA LEU 45 89.026 53.749 61.713 1.00 18.74 В C 87.570 **ATOM** 6036 CB LEU 45 53.489 61.327 1.00 17.33 B C **ATOM** 6037 CG LEU 45 87.163 54.032 59.952 1.00 17.35 В C ATOM 6038 CD1 LEU 45 88.050 53.417 58.873 1.00 15.87 C В 85.698 **ATOM** 6039 CD2 LEU 45 53.720 59.681 1.00 16.27 В C ATOM 6040 C LEU 45 89.300 55.240 61.638 1.00 19.82 В C **ATOM** 6041 0 LEU 45 89.827 55.743 60.638 1.00 21.32 В 0 **ATOM** 6042 N THR 88.948 62.707 46 55.945 1.00 19.07 В N **ATOM** 6043 CA THR 46 89.156 57.382 62.760 1.00 20.55 В C **ATOM** 6044 CB THR 46 88.550 57.988 64.038 1.00 21.32 C В ATOM 6045 OG1 THR 87.148 57.700 46 64.083 1.00 21.56 В 0 **ATOM** 6046 CG2 THR 46 88.745 59.497 64.053 1.00 20.61 В C **ATOM** 6047 C THR 46 90.634 57.749 62.694 1.00 21.16 В C **ATOM** 6048 0 THR 90.999 58.759 46 62.092 1.00 21.06 В 0 **ATOM** 6049 N **ASP** 47 91.491 56.945 63.313 1.00 21.00 В N **ATOM** 6050 CA **ASP** 47 92.910 57.253 63.262 1.00 22.97 C В **ATOM** 93.731 6051 CB **ASP** 56.273 47 64.110 1.00 25.34 В C **ATOM** 6052 CG **ASP** 47 93.365 56.322 65.578 1.00 27.23 В C **ATOM** 6053 OD1 ASP 47 93.116 57.430 66.105 1.00 26.32 В 0 **ATOM** 6054 OD2 ASP 47 93.339 55.244 66.208 1.00 31.41 В 0 **ATOM** 6055 C **ASP** 47 93.357 57.178 61.810 1.00 22.85 В C **ATOM** 6056 0 **ASP** 94.057 47 58.065 61.320 1.00 24.15 В 0 **ATOM** 92. 951 93. 332 6057 **TYR** N 56.124 1.00 20.92 48 61.114 В N **ATOM** 6058 CA TYR 48 55.998 59.720 1.00 21.40 В C ATOM 6059 **TYR** CB 48 92.823 54.676 59.136 1.00 19.45 B C **ATOM** 6060 CG 57.624 **TYR** 48 92.867 54.612 1.00 18.60 В C **ATOM** 6061 CD1 TYR 48 94.062 54.787 56.927 1.00 18.00 В C **ATOM** 6062 CE1 TYR 94.098 48 54.734 55.531 1.00 16.57 C В **ATOM** 6063 CD2 TYR 91.702 54.383 48 56.885 1.00 21.30 В C **ATOM** CE2 TYR 91.726 6064 48 54.329 55.489 1.00 19.50 В C **ATOM** 6065 CZ **TYR** 48 92.925 54.503 54.822 1.00 18.43 B C **ATOM** 6066 OH TYR 48 92.942 54.434 53.452 1.00 18.40 В 0 92. 795 ATOM 6067 C TYR 48 57.170 58.899 1.00 21.85 В C **ATOM** 6068 0 **TYR** 93.547 48 57.853 58.207 1.00 21.92 В 0 **ATOM** 6069 N LEU 91.497 49 57.416 58.996 1.00 23.08 В N **ATOM** 90.885 6070 CA LEU 49 58.485 58.223 1.00 26.78 В C ATOM 6071 CB LEU 49 89.359 58.437 58.381 1.00 28.14 В C CG LEU **ATOM** 6072 49 88.688 57.157 57.872 Č 1.00 28.75 В **ATOM** 6073 CD1 LEU 49 87.188 57.305 57.980  $_{\rm C}^{\rm C}$ 1.00 28.04 В ATOM 6074 CD2 LEU 49 89.094 56.889 56.420 1.00 28.45 В **ATOM** 6075 C LEU 49 91.391 59.886 58.544 1.00 28.33 Č В



					FI	G. 4	125			(Continued)
ATOM ATOM ATOM ATOM ATOM	6076 6077 6078 6079 6080	O N CA CB CG	LEU LYS LYS LYS LYS	49 50 50 50 50	91. 404 91. 818 92. 299 91. 668 90. 159	60.098 61.407 61.769	59. 784 60. 204 61. 543	1.00 28.77 1.00 30.17 1.00 30.95 1.00 31.36 1.00 33.25	B B B B	O N C C C
ATOM ATOM ATOM ATOM ATOM	6081 6082 6083 6084 6085	CD CE NZ C	LYS LYS LYS LYS LYS	50 50 50 50 50	89. 649 88. 239 87. 310 93. 811 94. 325	62. 710 62. 353 62. 113 61. 543 62. 622	60. 420 59. 970 61. 113 60. 288 60. 577	1.00 34.69 1.00 36.08 1.00 37.00 1.00 31.05 1.00 32.05	B B B B	C C N C
ATOM ATOM ATOM ATOM ATOM ATOM	6086 6087 6088 6089 6090		ASN ASN ASN ASN ASN ASN	51 51 51 51 51 51	94. 525 95. 978 96. 502 95. 964 96. 358 95. 047	60. 493 61. 541 61. 344 60. 416	60. 033 60. 074 59. 090 57. 689 56. 986 57. 277	1.00 30.75 1.00 31.14 1.00 33.97 1.00 37.06 1.00 39.83 1.00 40.54	B B B B B	N C C C O N
ATOM ATOM ATOM ATOM ATOM	6092 6093 6094 6095 6096	C O N CA CB	ASN ASN THR THR THR	51 51 52 52 52	96. 472 97. 474 95. 770 96. 152 95. 315	60. 828 61. 524 60. 335 60. 587 59. 742	61. 471 61. 624 62. 486 63. 870 64. 854	1.00 29.86 1.00 31.03 1.00 27.96 1.00 26.81 1.00 27.15	B B B B	C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	6097 6098 6099 6100 6101 6102	OG1 CG2 C O N CA	THR THR THR THR TYR TYR	52 52 52 52 53 53	93. 930 95. 724 97. 622 98. 274 98. 141 99. 541	60. 058 60. 030 60. 259 60. 867 59. 298 58. 900	64. 698 66. 291 64. 090 64. 934 63. 328 63. 450	1.00 27.72 1.00 25.06 1.00 26.88 1.00 27.07 1.00 26.35 1.00 27.48	B B B B	0 C C O N C
ATOM ATOM ATOM ATOM ATOM	6103 6104 6105 6106 6107	CB CG CD1 CE1 CD2	TYR TYR TYR TYR TYR	53 53 53 53 53	99. 632 98. 937 99. 433 98. 782 97. 768	57. 446 57. 209 57. 761 57. 566 56. 454	63. 899 65. 207 66. 389 67. 600 65. 268	1.00 24.69 1.00 24.64 1.00 24.67 1.00 24.44 1.00 22.60	B B B B	C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6108 6109 6110 6111 6112 6113	CEZ CZ OH C O N	TYR TYR TYR TYR TYR ARG	53 53 53 53 53 54	97. 107 97. 622 96. 981 100. 279 100. 187 101. 024	56. 255 56. 813 56. 609 59. 076 58. 234 60. 168	66. 474 67. 634 68. 826 62. 131 61. 239 62. 019	1.00 24.81 1.00 25.33 1.00 25.74 1.00 29.01 1.00 30.80 1.00 30.00	B B B B B	C C O C
ATOM ATOM ATOM ATOM ATOM	6114 6115 6116 6117 6118	CA CB CG CD NE	ARG ARG ARG ARG ARG	54 54 54 54 54	101. 760 101. 718 100. 360 100. 364 99. 157	60. 456 61. 955 62. 449 63. 945 64. 354	60. 801 60. 498 60. 020 59. 724 59. 008	1.00 30.00 1.00 29.57 1.00 32.42 1.00 38.51 1.00 42.89 1.00 46.94	B B B B	N C C C C N
ATOM ATOM ATOM ATOM ATOM ATOM	6119 6120 6121 6122 6123 6124	CZ NH1 NH2 C O N	ARG ARG ARG ARG ARG LEU	54 54 54 54 54 55	98. 812 99. 585 97. 697 103. 202 103. 934 103. 596	63. 893 63. 008 64. 314 59. 992 60. 168 59. 384	57. 808 57. 190 57. 224 60. 803 61. 776 59. 693	1. 00 48. 52 1. 00 50. 08 1. 00 47. 87 1. 00 27. 73 1. 00 26. 62 1. 00 25. 96	B B B B	C N N C O N



					FIC 1-127	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6174 6175 6176 6177 6178 6179 6180 6181 6182 6183 6184 6185 6188 6189 6190 6191 6192 6193 6194 6195 6196 6197 6198 6199 6200 6201 6202	NH2 C O N CA CB CCD2 CE2 CE3 CD1 NE1 CZ2 CZ3 CH2 C O N CA CB	LEU ARG ARG ARG ARG ARG ARG ARG ARG TRP	60 61 61 61 61 61 61 61 62 62 62 62 62 62 62 62 62 62 62 62 62	FIG. 4 - 127  115.176 65.604 48.029 1.00 23.79 B 116.375 67.495 48.302 1.00 26.02 B 116.634 67.659 46.881 1.00 27.11 B 115.693 68.728 46.329 1.00 32.13 B 115.779 68.979 44.833 1.00 38.27 B 115.002 70.243 44.495 1.00 41.78 B 114.937 70.506 43.063 1.00 46.51 B 114.298 71.543 42.525 1.00 49.47 B 113.671 72.420 43.307 1.00 48.74 B 114.266 71.693 41.205 1.00 50.07 B 118.080 68.075 46.676 1.00 26.01 B 118.475 69.180 47.052 1.00 26.36 B 118.877 67.186 46.095 1.00 25.15 B 120.282 67.488 45.846 1.00 24.48 B 121.024 66.244 45.355 1.00 20.04 B 121.095 65.145 46.365 1.00 18.16 B 121.954 65.092 47.508 1.00 14.54 B 121.639 63.910 48.215 1.00 15.18 B 122.956 65.932 48.007 1.00 12.41 B 120.315 64.017 46.419 1.00 17.39 B 120.639 63.272 47.528 1.00 15.77 B 122.292 63.546 49.397 1.00 16.35 B 123.606 65.575 49.183 1.00 14.94 B 123.271 64.389 49.866 1.00 16.25 B 120.401 68.588 44.798 1.00 26.73 B 119.863 68.457 43.698 1.00 27.86 B 121.088 69.675 45.135 1.00 27.97 B 121.265 70.763 44.180 1.00 29.02 B 120.947 72.130 44.803 1.00 29.02 B	O N C C C C N C N N C O N C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6196 6197 6198 6199 6200 6201 6202 6203 6204 6205 6206 6207 6208 6209 6210 6211 6212 6213 6214 6215	CZ3 CH2 C O N CA CB CG2 CG1 CD1 C O N CA CB OG C O N CA	TRP TRP TRP TRP ILE ILE ILE ILE	62 62 62 62 63 63	123. 606       65. 575       49. 183       1. 00 14. 94       B         123. 271       64. 389       49. 866       1. 00 16. 25       B         120. 401       68. 588       44. 798       1. 00 26. 73       B         119. 863       68. 457       43. 698       1. 00 27. 86       B         121. 088       69. 675       45. 135       1. 00 27. 97       B         121. 265       70. 763       44. 180       1. 00 29. 02       B         120. 947       72. 130       44. 803       1. 00 29. 64       B         119. 476       72. 193       45. 169       1. 00 30. 36       B         121. 830       72. 372       46. 027       1. 00 30. 01       B         121. 542       73. 682       46. 736       1. 00 27. 88       B         122. 693       70. 771       43. 657       1. 00 30. 19       B         123. 485       69. 816       44. 132       1. 00 30. 03       B         124. 876       69. 668       43. 718       1. 00 30. 53       B         125. 848       70. 724       45. 679       1. 00 27. 92       B         125. 399       68. 343       44. 255       1. 00 31. 36       B         124.	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6217 6218 6219 6220 6221	CG OD1 OD2 C	ASP ASP ASP ASP ASP HIS	65 65 65 65 65 66	128. 576       66. 633       43. 945       1. 00 33. 28       B         129. 158       65. 286       44. 302       1. 00 35. 12       B         128. 446       64. 261       44. 158       1. 00 33. 02       B         130. 331       65. 259       44. 728       1. 00 37. 02       B         127. 636       67. 045       46. 211       1. 00 32. 66       B         128. 076       66. 069       46. 818       1. 00 31. 78       B         127. 399       68. 217       46. 796       1. 00 33. 06       B	C C O C O N

				FIG. 4-128	(Continued)
ATOM	6223	CA HIS	66		C
ATOM	6224		66	127. 704 68. 440 48. 203 1. 00 32. 64 B 128. 892 69. 402 48. 329 1. 00 35. 63 B	C C
ATOM	6225		66	130. 032 69. 076 47. 416 1. 00 39. 09 B	Č
ATOM	6226		66	131. 260 68. 562 47. 669 1. 00 40. 29 B	Č
ATOM	6227	ND1 HIS	66	129. 959 69. 238 46. 047 1. 00 41. 80 B	Ň
ATOM	6228		66	131.092 68.835 45.498 1.00 42.37 B	Ċ
ATOM	6229	NE2 HIS	66	131.897 68.420 46.459 1.00 42.11 B	Ň
<b>ATOM</b>	6230	C HIS	66	126.547 69.001 49.016 1.00 31.01 B	Ĉ
ATOM	6231	0 HIS	66	126. 602 69. 008 50. 245 1. 00 30. 92 B	Õ
ATOM	6232	n glu	67	125. 505 69. 479 48. 345 1. 00 30. 05 B	N
ATOM	6233	CA GLU	67	124. 379 70. 067 49. 062 1. 00 28. 07 B	
ATOM	6234	CB GLU	67	124. 457 71. 591 48. 984 1. 00 27. 21 B	C C C
ATOM	6235	CG GLU	67	125. 601 72. 179 49. 781 1. 00 29. 99 B	С
ATOM	6236	CD GLU	67	125. 745 73. 675 49. 593 1. 00 32. 09 B	С
ATOM	6237	OE1 GLU	67	126. 408 74. 315 50. 438 1. 00 33. 25 B	0
ATOM	6238	OE2 GLU	67	125. 207 74. 209 48. 599 1. 00 34. 83 B	0
ATOM	6239	C GLU	67	123.015 69.619 48.583 1.00 27.52 B	С
ATOM	6240	O GLU	67	122.872 69.085 47.482 1.00 27.10 B	0
ATOM	6241	N TYR	68	122.012 69.855 49.425 1.00 26.72 B	N
ATOM ATOM	6242	CA TYR	68	120. 634 69. 498 49. 116 1. 00 25. 74 B	C
ATOM	6243 6244	CB TYR CG TYR	68	120.347 68.069 49.592 1.00 23.47 B	C
ATOM	6245	CG TIR CD1 TYR	68 60	120.373 67.847 51.094 1.00 22.93 B	C
ATOM	6246	CEI TYR	68 68	119.339 68.319 51.914 1.00 22.75 B	C
ATOM	6247	CD2 TYR	68	119. 312 68. 040 53. 282 1. 00 21. 24 B 121. 391 67. 097 51. 685 1. 00 22. 05 B	C
ATOM	6248	CE2 TYR	68		C
ATOM	6249	CZ TYR	68		C
ATOM	6250	OH TYR	68		C
ATOM	6251	C TYR	68	120. 300 66. 973 55. 191 1. 00 18. 34 B 119. 657 70. 481 49. 759 1. 00 26. 00 B	0 C
ATOM	6252	0 TYR	68	119. 961 71. 077 50. 789 1. 00 26. 50 B	0
ATOM	6253	N LEU	69	118. 497 70. 674 49. 139 1. 00 26. 72 B	N N
ATOM	6254	CA LEU	69	117. 492 71. 580 49. 694 1. 00 27. 89 B	Č
ATOM	6255	CB LEU	69	116. 729 72. 316 48. 586 1. 00 24. 29 B	Č
ATOM	6256	CG LEU	69	117. 545 73. 257 47. 695 1. 00 23. 81 B	č ·
ATOM	6257	CD1 LEU	69	116.656 73.891 46.633 1.00 19.95 B	č
ATOM	6258	CD2 LEU	69	118.187 74.324 48.552 1.00 24.79 B	č
ATOM	6259	C LEU	69	116.508 70.777 50.543 1.00 29.18 B	Č
ATOM	6260	0 LEU	69	116. 226 69. 609 50. 260 1. 00 28. 86 B	0
ATOM	6261	N TYR	70	115. 998 71. 411 51. 590 1. 00 29. 78 B	N
ATOM	6262	CA TYR	70	115. 057 70. 765 52. 482 1. 00 31. 48 B	С
ATOM	6263	CB TYR	70	115. 799 70. 142 53. 667 1. 00 28. 76 B	C
ATOM	6264	CG TYR	70	114.910 69.348 54.592 1.00 26.47 B	С
ATOM	6265	CD1 TYR	70 70	114. 396 68. 114 54. 206 1. 00 25. 75 B	C
ATOM ATOM	6266 6267	CE1 TYR CD2 TYR	70 70	113.544 67.398 55.038 1.00 26.40 B	C
ATOM	6268	CE2 TYR	70 70	114. 553 69. 847 55. 842 1. 00 28. 33 B	C
ATOM	6269	CZ TYR	70 70	113.701 69.141 56.686 1.00 28.03 B	C
ATOM	6270	OH TYR	70	113.199 67.918 56.276 1.00 28.21 B 112.346 67.221 57.103 1.00 30.20 B	C
ATOM	6271	C TYR	70	112.346 67.221 57.103 1.00 30.20 B 114.056 71.796 52.983 1.00 34.45 B	0
117 0		- 1111	• •	111.000 (1.100 02.300 1.00 34.40 B	С

			FIG. 4-129	(Continued)
ATOM 6272 ATOM 6273 ATOM 6274 ATOM 6275 ATOM 6276 ATOM 6277 ATOM 6277 ATOM 6279 ATOM 6280 ATOM 6281 ATOM 6281 ATOM 6282 ATOM 6283 ATOM 6284 ATOM 6285 ATOM 6285 ATOM 6286 ATOM 6287 ATOM 6288 ATOM 6288 ATOM 6290 ATOM 6291 ATOM 6291 ATOM 6291 ATOM 6293 ATOM 6293 ATOM 6293 ATOM 6293 ATOM 6294 ATOM 6297 ATOM 6298 ATOM 6297 ATOM 6298 ATOM 6299 ATOM 6299 ATOM 6299	N LYS CA LYS CB LYS CG LYS CD LYS	70 71 71 71 71 71 71 71 71 72 72 72 72 72 72 72 73 73 73 73 73 73 73 73 73 73 73 73 73	114. 425       72. 914       53. 336       1. 00       33. 43       B         112. 787       71. 410       53. 002       1. 00       39. 59       B         111. 714       72. 284       53. 461       1. 00       44. 28       B         110. 408       71. 904       52. 763       1. 00       45. 57       B         109. 994       72. 828       51. 640       1. 00       48. 26       B         109. 416       74. 116       52. 192       1. 00       51. 24       B         108. 213       73. 827       53. 075       1. 00       53. 11       B         107. 193       73. 012       52. 354       1. 00       54. 56       B         111. 523       72. 186       54. 973       1. 00       46. 60       B         110. 789       71. 323       55. 457       1. 00       46. 95       B         112. 192       73. 055       55. 723       1. 00       49. 39       B         112. 192       73. 055       55. 723       1. 00       49. 39       B         112. 192       73. 055       55. 723       1. 00       49. 39       B         112. 192       73. 63       59. 373       1. 00 <td>0 N C C C C C C O N C C C C C O N C C C C</td>	0 N C C C C C C O N C C C C C O N C C C C
ATOM 6301 ATOM 6302	CA ASN CB ASN	74 74	108.717 75. 863 56. 989 1. 00 58. 30 B 107. 987 76. 156 55. 768 1. 00 57. 33 B 106. 771 77. 035 56. 054 1. 00 59. 07 B	N C C
ATOM 6303 ATOM 6304	CG ASN OD1 ASN	74 74	105. 474 76. 399 55. 581 1. 00 60. 80 B 105. 350 76. 006 54. 418 1. 00 61. 62 B	C O
ATOM 6305 ATOM 6306	ND2 ASN C ASN	74 74	104. 501 76. 293 56. 482 1. 00 60. 69 B	N
ATOM 6307 ATOM 6308	O ASN N ASN	74	108. 666 76. 979 53. 620 1. 00 56. 72 B	C 0
ATOM 6309 ATOM 6310	CA ASN	75 75	110. 059 77. 321 55. 355 1. 00 54. 35 B 111. 064 77. 984 54. 544 1. 00 52. 33 B	N C
ATOM 6311	CG ASN	75 75	111.793 79.055 55.355 1.00 55.77 B 111.992 78.659 56.793 1.00 57.61 B	C C
ATOM 6312 ATOM 6313	OD1 ASN ND2 ASN	75 75	112. 467 77. 563 57. 088 1. 00 60. 07 B 111. 635 79. 556 57. 705 1. 00 59. 51 B	O N
ATOM 6314 ATOM 6315	C ASN O ASN	75 75	112.048 76.943 54.026 1.00 49.25 B	C
ATOM 6316	N ILE	76	112. 883 77. 343 53. 077 1. 00 45. 23 B	0 N
	CA ILE CB ILE	76 76	113. 837 76. 424 52. 483 1. 00 41. 55 B	C
ATOM 6319	CG2 ILE	76	114. 705 75. 524 50. 310 1. 00 41. 39 B	C C
ATOM 6320	CG1 ILE	76	112.445 76.583 50.415 1.00 40.24 B	C

					F I (	3. 4-	130			(Continued)
ATOM	6321	ርቦ1	ILE	76	112.341	77. 009	48. 967	1.00 42.01	В	С
ATOM	6322	C	ILE	76	115. 243	76. 589	53. 043	1.00 42.01	В	č
ATOM	6323	Ö	ILE	76	115. 758	77. 701	53. 150	1.00 41.15	В	ŏ
ATOM	6324	N	LEU	77	115.862	75. 472	53. 400	1.00 36.42	B	Ň
ATOM	6325	CA	LEU	77	117. 208	75. 498	53. 941	1.00 34.22	B	Ċ
ATOM	6326	CB	LEU	77	117. 227	74. 901	55. 351	1.00 34.28	B	Č
ATOM	6327	ĊĠ	LEU	77	116.155	75. 359	56.346	1.00 34.54	В	C
ATOM	6328		LEU	77	116.435	74. 728	57.701	1.00 33.23	В	C
ATOM	6329		LEU	77	116.149	76.874	56.460	1.00 34.45	B	C
ATOM	6330	C	LEU	77	118.121	74.683	53.036	1.00 32.91	В	C
ATOM	6331	0	LEU	77	117.657	73.821	52. 289	1.00 32.49	В	0
ATOM	6332	N	VAL	78	119.417	74.967	53. 103	1.00 30.72	В	N
ATOM	6333	CA	VAL	78	120.409	74. 253	52.308	1.00 29.87	В	C
ATOM	6334	CB	VAL	78	121. 227	75. 227	51.431	1.00 30.20	В	C
ATOM	6335	CG1	VAL	78	122. 327	74. 480	50.691	1.00 29.01	В	C
ATOM	6336		VAL	78	120. 311	75. 906	50. 448	1.00 31.37	В	C
ATOM	6337	C	VAL	78 70	121.346	73. 523	53. 263	1.00 28.37	В	C
ATOM	6338	0	VAL	78	121.781	74.087	54. 261	1.00 28.38	В	0
ATOM	6339	N	PHE	79 70	121.660	72. 272	52. 956	1.00 26.51	В	N
ATOM	6340	CA	PHE	79 70	122. 530	71.496	53. 821	1.00 24.85	В	C
ATOM	6341	CB	PHE	79 70	121.807	70. 247		. 1. 00 24. 45	В	C
ATOM	6342	CG	PHE PHE	79 70	120.680	70. 531	55. 296	1.00 22.62	B B	C
ATOM ATOM	6343 6344		PHE	79 79	119. 499 120. 789	71. 120 70. 168	54. 857 56. 636	1.00 20.15 1.00 19.84	В	C
ATOM	6345		PHE	79	118. 448	71. 338	55. 733	1.00 19.84	В	C
ATOM	6346		PHE	79	119. 749	70. 382	57. 513	1.00 20.33	В	Č
ATOM	6347	CZ	PHE	79	118. 573	70.967	57.065	1.00 18.97	В	č
ATOM	6348	C	PHE	79	123. 815	71.036	53. 151	1.00 24.95	В	č
ATOM	6349	ŏ	PHE	79	123. 841	70. 729	51.960	1.00 24.94	В	Ö
ATOM	6350	Ň	ASN	80	124. 876	70. 992	53. 948	1.00 23.66	B	Ň
ATOM	6351	CA	ASN	80	126. 174	70.518	53. 517	1.00 23.32	B	Ċ
ATOM	6352	CB	ASN	80	127. 276	71.307	54. 220	1.00 22.91	B	Č
ATOM	6353		ASN	80	128.653	70.689		1.00 22.91	В	Č
ATOM	6354		ASN	80	128.916	69.567	54.486	1.00 23.26	В	0
ATOM	6355	ND2	ASN	80	129.542	71.421	53.364	1.00 21.99	В	N
ATOM	6356	C	ASN	80	126. 156	69.077	54.018	1.00 24.17	В	C
ATOM	6357	0	ASN	80	126. 168	68.842	55. 222	1.00 25.80	В	0
ATOM	6358	N	ALA	81	126. 116	68.116	53. 105	1.00 23.17	В	N
ATOM	6359	CA	ALA	81	126.054	66.713	53.496	1.00 24.07	В	C
ATOM	6360	CB	ALA	81	126.025	65.819	52. 246	1.00 20.69	В	C
ATOM	6361	C	ALA	81	127. 167	66. 256	54. 434	1.00 25.23	В	C
ATOM	6362	0	ALA	81	126. 925	65. 462	55. 347	1.00 25.26	В	0
ATOM	6363	N	GLU	82	128. 377	66.764	54. 222	1.00 26.73	В	N C
ATOM	6364	CA	GLU	82	129. 525	66.351	55.024	1.00 29.51	В	C
ATOM	6365	CB	GLU	82 82	130.820	66. 835	54. 361	1.00 32.02	B	C
ATOM ATOM	6366 6367	CG CD	GLU GLU	82 82	132. 124 132. 287	66.326	55. 005 54. 955	1.00 35.72 1.00 38.90	B B	C C
ATOM	6368		GLU	82 82	132. 261	64. 800 64. 191	53. 884	1.00 38.71	В	0
ATOM	6369		GLU	82	132.659	64. 209	55. 995	1.00 40.81	В	0

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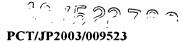
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					FIC	G. 4-	131			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6370 6371 6372 6373 6374 6375 6376 6377 6378 6381 6382 6383 6384 6385 6386 6387 6388 6389 6391 6392 6393 6394 6395 6397 6398 6400 6401 6405	CE1 CD2 CE2 CZ OH C O N CA CB CG OD1	GLU TYR TYR TYR TYR TYR TYR TYR TYR GLY GLY ASN ASN ASN ASN ASN SER SER SER SER SER SER SER SER SER SER	82 83 83 83 83 83 83 83 83 83 84 84 85 85 85 86 86 86 87 87 87	F I (129. 528 130. 102 128. 888 128. 877 129. 504 130. 821 131. 914 133. 120 130. 966 132. 162 133. 234 134. 413 127. 490 127. 340 126. 478 125. 136 124. 668 123. 511 125. 565 125. 201 126. 446 127. 356 128. 051 127. 338 124. 381 124. 432 123. 622 122. 787 121. 392 120. 734 122. 658 123. 307 121. 806 121. 530 122. 588 123. 887	66. 757 66. 051 67. 872 68. 329 69. 722 69. 834 69. 049 70. 704 70. 791 70. 003 70. 091 68. 355 68. 684 68. 726 70. 137 70. 345 71. 109 72. 501 73. 366 73. 363 72. 384 74. 472 73. 023 74. 085 74. 633 74. 005 76. 682 78. 111 78. 825 78. 635	56. 497 57. 324 56. 834 58. 223 58. 320 57. 596 57. 963 57. 271 56. 517 56. 517 55. 815 56. 195 58. 853 60. 044 58. 863 58. 601 58. 880 59. 222 58. 745 57. 975 57. 697 57. 250 57. 813 56. 720 57. 813 56. 720 57. 813 56. 720 57. 813 56. 720 57. 813 56. 991 57. 061 58. 853 56. 195 57. 813 56. 720 57. 813 56. 720 57. 813 56. 195 57. 813 56. 195 57. 813 56. 720 57. 813 56. 195 57. 813 56. 720 57. 813 56. 195 57. 813	1. 00 29. 17 1. 00 28. 55 1. 00 29. 07 1. 00 28. 95 1. 00 30. 17 1. 00 33. 40 1. 00 33. 79 1. 00 36. 91 1. 00 35. 97 1. 00 36. 91 1. 00 28. 16 1. 00 29. 04 1. 00 25. 68 1. 00 24. 77 1. 00 24. 95 1. 00 23. 68 1. 00 26. 40 1. 00 27. 79 1. 00 28. 01 1. 00 31. 32 1. 00 31. 73 1. 00 32. 38 1. 00 33. 71 1. 00 28. 62 1. 00 30. 17 1. 00 32. 38 1. 00 31. 71 1. 00 32. 38 1. 00 33. 63 1. 00 35. 95 1. 00 35. 50 1. 00 39. 27	B B B B B B B B B B B B B B B B B B B	C O N C C C C C C C C C O C O N C C C O N C C
ATOM ATOM ATOM	6406 6407 6408	C O N	SER SER VAL	87 87 88	120. 191 119. 832 119. 444	78. 233 77. 369 79. 288	55. 418 54. 625 55. 723	1. 00 36. 74 1. 00 38. 47 1. 00 37. 17	В В В	0 C 0 N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6409 6410 6411 6412 6413 6414 6415 6416 6417	CG2 C O N	VAL VAL VAL VAL VAL PHE PHE PHE PHE	88 88 88 88 88 89 89 89	118. 154 117. 357 116. 094 117. 006 118. 422 119. 235 117. 745 117. 925 117. 901 118. 060	79. 498 80. 636 80. 916 80. 260 79. 897 80. 782 79. 240 79. 552 78. 262 78. 474	55. 084 55. 750 54. 954 57. 186 53. 647 53. 379 52. 719 51. 314 50. 491 49. 014	1. 00 36. 32 1. 00 37. 21 1. 00 36. 84 1. 00 38. 04 1. 00 36. 83 1. 00 36. 34 1. 00 36. 53 1. 00 37. 05 1. 00 34. 62 1. 00 31. 67	B B B B B B B	C C C C C O N C C C

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			FIG. 4-132	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6420 CD2 PHE 6421 CE1 PHE 6422 CE2 PHE 6423 CZ PHE 6424 C PHE 6425 O PHE 6426 N LEU 6427 CA LEU 6428 CB LEU 6429 CG LEU 6430 CD1 LEU 6431 CD2 LEU 6432 C LEU 6432 C LEU 6433 O LEU 6434 N GLU 6435 CA GLU 6435 CA GLU 6436 CB GLU 6437 CG GLU 6437 CG GLU 6438 CD GLU 6438 CD GLU 6439 OE1 GLU 6439 OE1 GLU 6440 OE2 GLU 6441 C GLU 6441 C GLU 6442 O GLU 6441 C GLU 6442 CA ASN 6444 CA ASN 6445 CB ASN 6446 CG ASN 6446 CG ASN 6447 OD1 ASN 6448 ND2 ASN 6446 CG ASN 6447 OD1 ASN 6448 ND2 ASN 6449 C ASN 6449 C ASN 6449 C ASN 6450 O ASN 6451 N SER 6452 CA SER 6453 CB SER	89 89 89 89 90 90 90 90 91 91 91 91 91 92 92 92 92 93 93 93 93	116. 963       78. 790       48. 223       1. 00 29. 04       B         119. 303       78. 333       48. 412       1. 00 31. 62       B         117. 095       78. 958       46. 857       1. 00 28. 72       B         119. 450       78. 500       47. 038       1. 00 32. 27       B         118. 342       78. 813       46. 258       1. 00 30. 91       B         116. 801       80. 483       50. 896       1. 00 39. 38       B         116. 901       81. 188       49. 892       1. 00 39. 38       B         115. 733       80. 493       51. 688       1. 00 41. 53       B         114. 581       81. 332       51. 403       1. 00 43. 78       B         113. 849       80. 788       50. 173       1. 00 44. 69       B         112. 818       81. 664       49. 462       1. 00 44. 94       B         113. 439       83. 000       49. 088       1. 00 44. 59       B         113. 192       80. 302       53. 062       1. 00 44. 54       B         113. 192       80. 302       53. 062       1. 00 44. 77       B         113. 950       84. 663       55. 199       1. 00 53. 90       B         112.	C C C C C C C C C C C C C O N C C C C O O C O N C C C O N C C C O N C C C O N C C C O N C C O N C C C O N C O N C C C O N C O N C C C O N C O N C C C O N C O N C C O N C O N C C O N C C O N C C O N C O N C C O N C O N C C O N C O N C C O N C O N C C O N C O N C C O N C O N C C O N C O N C O N C C O N C O
ATOM ATOM ATOM	6455 C SER 6456 O SER 6457 N THR	93 93 94	108. 097 85. 658 53. 618 1. 00 53. 82 B 107. 391 86. 646 53. 421 1. 00 52. 94 B	C 0
ATOM ATOM ATOM ATOM ATOM	6458 CA THR 6459 CB THR 6460 OG1 THR 6461 CG2 THR 6462 C THR	94 94 94 94 94	109. 473       86. 127       51. 656       1. 00 54. 56       B         110. 616       85. 473       50. 858       1. 00 54. 40       B         110. 837       86. 210       49. 648       1. 00 53. 65       B         110. 268       84. 040       50. 515       1. 00 55. 54       B         108. 330       86. 418       50. 689       1. 00 54. 94       B	N C C O C C
ATOM ATOM ATOM ATOM ATOM	6463 0 THR 6464 N PHE 6465 CA PHE 6466 CB PHE 6467 CG PHE	94 95 95 95 95	108. 424       87. 339       49. 878       1. 00 55. 42       B         107. 256       85. 640       50. 762       1. 00 54. 35       B         106. 125       85. 865       49. 873       1. 00 54. 57       B         105. 956       84. 681       48. 914       1. 00 53. 35       B         107. 158       84. 426       48. 043       1. 00 52. 21       B	O N C C C



										(Continued)
					FIC	G. 4-	1 3 3			(COMUMAC)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6468 6469 6470 6471 6472 6473 6474 6475 6476 6477	CD2 CE1 CE2 CZ C O N CA CB CG OD1	PHE PHE PHE PHE ASP ASP ASP	95 95 95 95 95 96 96 96	107. 978 107. 476 109. 095 108. 594 109. 403 104. 825 103. 740 104. 941 103. 775 104. 167 104. 234	83. 326 85. 290 83. 091 85. 061 83. 960 86. 105 85. 784 86. 681 86. 964 87. 785 86. 945 85. 875	48. 268 47. 005 47. 473 46. 205 46. 441 50. 639 50. 149 51. 835 52. 668 53. 900 54. 993 55. 321	1. 00 51. 86 1. 00 51. 89 1. 00 50. 37 1. 00 51. 43 1. 00 50. 62 1. 00 55. 66 1. 00 55. 16 1. 00 56. 69 1. 00 57. 24 1. 00 58. 96 1. 00 60. 91 1. 00 60. 82	B B B B B B B	C C C C C O N C C C
ATOM ATOM	6480 6481	OD2 C	ASP ASP	96 96	105.835 102.674	87. 366 87. 712	55. 538 51. 933	1.00 62.59 1.00 57.24	B B	0 C
ATOM	6482	ŏ	ASP	96	101.498	87. 401	52. 100	1.00 58.26	В	ŏ
ATOM	6483	N CA	GLU	97 07	103.050	88. 703	51.130	1.00 57.07	В	N C
ATOM ATOM	6484 6485	CA CB	GLU GLU	97 97	102.068 102.389	89. 496 90. 994	50.395 50.512	1.00 57.68 1.00 59.15	B B	C C
ATOM	6486	CG	GLU	97	102.397	91.553	51.935	1.00 61.76	B	č
ATOM	6487	CD	GLU	97	103.629	91.140	52. 729	1.00 63.57	В	C
ATOM ATOM	6488 6489		GLU GLU	97 97	103.714	91.490	53. 927	1.00 63.88	В	0
ATOM	6490	C	GLU	97	104. 514 101. 970	90.467 89.123	52. 155 48. 917	1.00 64.73 1.00 56.86	B B	0 C
ATOM	6491	ŏ	GLU	97	101.652	89. 972	48. 080	1.00 58.05	В	Ö
ATOM	6492	N	PHE	98	102. 234	87.859	48. 598	1.00 54.75	B	Ň
ATOM	6493	CA	PHE	98	102. 181	87. 393	47. 214	1.00 52.58	В	C
ATOM	6494	CB	PHE	98	102.730	85. 965	47. 117	1.00 52.53	В	C
ATOM ATOM	6495 6496	CG	PHE PHE	98 98	102. 792 103. 564	85. 434 86. 073	45. 713 44. 749	1.00 51.74 1.00 50.75	B B	C
ATOM	6497		PHE	98	103. 304	84. 305	45.348	1.00 50.75	В	C C
ATOM	6498		PHE	98	103.609	85. 597	43. 445	1.00 50.51	В	Č
ATOM	6499	CE2	PHE	98	102. 103	83. 822	44.044	1.00 50.40	B	č
ATOM	6500	CZ	PHE	98	102.876	84.469	43.092	1.00 49.83	В	C
ATOM	6501	C	PHE	98	100.764	87. 448	46.641	1.00 51.24	В	C
ATOM ATOM	6502 6503	0 N	PHE GLY	98 99	100. 578 99. 770	87. 544	45.427	1.00 50.42	В	0 N
ATOM	6504	CA	GLY	99	98. 383	87. 383 87. 441	47. 523 47. 094	1.00 50.67 1.00 48.74	B B	N C
ATOM	6505	C	GLY	99	97. 918	86. 192	46. 376	1.00 48.14	В	Č .
ATOM	6506	0	GLY	99	97. 020	86. 246	45. 540	1.00 48.42	B	Ŏ
ATOM	6507	N	HIS	100	98.530	85.065	46.712	1.00 45.49	В	N
ATOM	6508	CA	HIS	100	98. 200	83. 780	46. 104	1.00 43.24	В	C
ATOM ATOM	6509 6510	CB CG	HIS HIS	100 100	98. 787 98. 004	83. 686	44.694	1.00 41.93	В	C
ATOM	6511		HIS	100	98. 345	84. 414 85. 437	43. 651 42. 833	1.00 39.37 1.00 38.83	B B	C C
ATOM	6512		HIS	100	96. 711	84. 075	43. 321	1.00 39.65	В	N
ATOM	6513	CE1	HIS	100	96. 288	84.857	42.344	1.00 38.90	В	С
ATOM	6514		HIS	100	97. 262	85.691	42.029	1.00 38.71	В	N
ATOM ATOM	6515 6516	C	HIS	100	98. 822		46.940	1.00 42.56	В	C
ATOM	0010	0	HIS	100	99. 916	82.846	47. 473	1.00 43.12	В	0

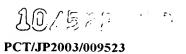


			FIG. 4-134	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6518 CA SEH 6519 CB SEH 6520 OG SEH 6521 C SEH 6522 O SER 6523 N ILE 6524 CA ILE 6525 CB ILE 6526 CG2 ILE 6527 CG1 ILE 6528 CD1 ILE 6529 C ILE 6530 O ILE 6531 N ASN 6532 CA ASN 6532 CA ASN 6533 CB ASN 6534 CG ASN 6534 CG ASN 6535 OD1 ASN 6536 ND2 ASN 6537 C ASN 6536 ND2 ASN 6537 C ASN 6537 C ASN 6538 O ASN 6539 N ASP 6540 CA ASP 6541 CB ASP 6542 CG ASP 6543 OD1 ASP 6544 OD2 ASP 6544 OD2 ASP 6545 C ASP	R 101 R 101 R 101 R 101 R 101 R 101 R 102 102 102 102 102 102 102 103 103 103 103 103 103 104 104 104 104 104 104	98. 139 81. 547 47. 063 1. 00 41. 90 98. 716 80. 442 47. 817 1. 00 43. 20 97. 623 79. 527 48. 382 1. 00 43. 41 96. 852 78. 931 47. 354 1. 00 42. 92 99. 083 79. 213 45. 794 1. 00 43. 33 100. 880 79. 584 47. 095 1. 00 41. 90 101. 762 78. 874 46. 183 1. 00 42. 10 103. 255 79. 286 46. 369 1. 00 43. 10 103. 370 80. 811 46. 404 1. 00 43. 52 103. 824 78. 700 47. 660 1. 00 45. 01 105. 294 79. 038 47. 895 1. 00 46. 96 101. 598 77. 380 46. 415 1. 00 41. 27 101. 342 76. 648 45. 339 1. 00 40. 05 101. 157 75. 211 45. 434 1. 00 39. 20 100. 502 74. 674 44. 163 1. 00 39. 98 100. 190 73. 199 44. 257 1. 00 39. 82 99. 355 72. 784 45. 056 1. 00 40. 83 100. 866 72. 396 43. 448 1. 00 40. 75 102. 486 74. 508 45. 645 1. 00 37. 42 102. 601 73. 614 46. 475 1. 00 38. 46 103. 491 74. 912 44. 880 1. 00 35. 77 104. 808 74. 303 44. 982 1. 00 34. 14 104. 819 72. 955 44. 248 1. 00 33. 54 105. 827 75. 253 44. 367 1. 00 33. 07	(Continued)  B N B C B C B O B C B O B N B C B C B C B C B C B C B C B C B C B C
ATOM ATOM ATOM	6546 O ASP 6547 N TYR 6548 CA TYR	104 105 105	105.461 76.218 43.695 1.00 33.54 107.103 74.985 44.607 1.00 32.32	B 0 B N
ATOM ATOM	6549 CB TYR 6550 CG TYR	105 105 105	108. 167 75. 824 44. 082 1. 00 31. 45 108. 854 76. 573 45. 220 1. 00 32. 58 109. 515 75. 662 46. 218 1. 00 35. 82	B C B C
ATOM ATOM ATOM ATOM	6551 CD1 TYR 6552 CE1 TYR 6553 CD2 TYR 6554 CE2 TYR	105 105 105 105	110. 859 75. 306 46. 091 1. 00 36. 01 111. 465 74. 453 47. 009 1. 00 36. 30 108. 791 75. 138 47. 287 1. 00 37. 55 109. 387 74. 282 48. 208 1. 00 38. 47	B C B C B C B C
ATOM ATOM ATOM ATOM	6555 CZ TYR 6556 OH TYR 6557 C TYR 6558 O TYR	105 105 105 105	110.719 73.947 48.065 1.00 37.17 111.293 73.106 48.984 1.00 38.67 109.180 74.972 43.347 1.00 30.07	B C B O C
ATOM ATOM ATOM ATOM ATOM ATOM	6559 N SER 6560 CA SER 6561 CB SER 6562 OG SER 6563 C SER 6564 O SER	106 106 106 106 106 106	110. 203       75. 623       42. 815       1. 00 28. 45         111. 236       74. 938       42. 059       1. 00 26. 63         110. 648       74. 391       40. 758       1. 00 24. 49         111. 662       74. 145       39. 806       1. 00 24. 16         112. 341       75. 926       41. 745       1. 00 26. 32	B
ATOM	6565 N ILE	107		B 0 B N

										(Continued)
					FI	G. 4	1 3 5			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6566 6567 6568 6569 6570 6571	CG	ILE ILE ILE ILE ILE ILE ILE	107 107 107 107 107 107	114. 602 115. 634 116. 885 115. 050 114. 056 115. 315 115. 418	76. 662 76. 576 77. 328 77. 161 76. 271 76. 305	42. 196 43. 354	1.00 24.30 1.00 21.79 1.00 21.05 1.00 21.30 1.00 23.96 1.00 25.00 1.00 27.32	B B B B B	C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6573 6574 6575 6576 6577 6578	N CA CB OG C	SER SER SER SER SER SER	108 108 108 108 108 108	115. 788 116. 534 116. 936 117. 786 117. 789 118. 223	77. 320 77. 102 78. 439 79. 144 76. 347 76. 484	40. 187 38. 959 38. 350 39. 245 39. 403 40. 546	1.00 24.67 1.00 24.23 1.00 23.85 1.00 23.56 1.00 25.01 1.00 25.28	B B B B	N C C O C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6579 6580 6581 6582 6583 6584 6585	N CD CA CB CG C	PRO PRO PRO PRO PRO PRO PRO	109 109 109 109 109 109 109	118. 394 118. 003 119. 600 120. 023 118. 722 120. 726	75. 282 74. 798 74. 172 73. 983 75. 619	38. 508 37. 115 38. 869 37. 547 36. 836 39. 499	1. 00 25. 25 1. 00 25. 10 1. 00 26. 01 1. 00 24. 74 1. 00 25. 99 1. 00 27. 62	B B B B	N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6586 6587 6588 6589 6590 6591	N CA CB CG OD1	ASP ASP ASP ASP ASP ASP	110 110 110 110 110 110	121. 413 120. 923 121. 988 122. 465 121. 342 120. 415 121. 391	75. 139 76. 847 77. 691 78. 689 79. 543 79. 856 79. 912	40. 403 39. 026 39. 562 38. 504 37. 960 38. 730 36. 767	1.00 28.26 1.00 28.44 1.00 29.86 1.00 30.74 1.00 32.54 1.00 33.07 1.00 33.02	B B B B	0 N C C C
ATOM ATOM ATOM ATOM ATOM ATOM	6592 6593 6594 6595 6596 6597	C O N CA C	ASP ASP GLY GLY GLY GLY	110 110 111 111 111 111	121. 599 122. 379 120. 397 119. 945 119. 673 119. 462	78. 449 79. 248 78. 197 78. 863 80. 343 81. 074	40. 828 41. 337 41. 335 42. 545 42. 357 43. 323	1.00 33.02 1.00 30.83 1.00 32.09 1.00 31.58 1.00 32.15 1.00 32.90 1.00 31.87	B B B B B	0 C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	6598 6599 6600 6601 6602 6603	N CA CB CG CD OE1	GLN GLN GLN GLN GLN GLN	112 112 112 112 112 112	119. 666 119. 440 120. 005 120. 885 122. 019 122. 890	80. 783 82. 184 82. 486 83. 717 83. 551 82. 697	41. 105 40. 783 39. 396 39. 329 38. 337 38. 515	1.00 33.93 1.00 35.14 1.00 36.07 1.00 39.16 1.00 39.62 1.00 38.31	B B B B B	N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6604 6605 6606 6607 6608 6609 6610	NE2 C O N CA CB CG	GLN GLN PHE PHE PHE PHE	112 112 112 113 113 113	122. 013 117. 970 117. 627 117. 099 115. 678 115. 185 115. 948	84. 363 82. 577 83. 692 81. 667 81. 965 82. 165 83. 204	37. 281 40. 826 41. 225 40. 410 40. 401 38. 969 38. 208	1.00 41.28 1.00 34.39 1.00 35.13 1.00 32.82 1.00 31.84 1.00 31.95 1.00 34.16	B B B B	N C O N C C
ATOM ATOM ATOM ATOM	6611 6612 6613 6614	CD1 CD2 CE1 CE2	PHE PHE PHE	113 113 113 113	117. 150 115. 475 117. 872 116. 185	82. 886 84. 508 83. 853 85. 479	37. 587 38. 124 36. 893 37. 436	1.00 34.16 1.00 35.65 1.00 35.41 1.00 36.00 1.00 35.02	B B B B	C C C C

					FIG	. 4	136			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6615 6616 6617 6618 6619 6620 6621 6622 6623 6624 6625 6626 6627 6628	CZ C O N CA CB CG CO CO N CA CB	ILE	113 113 114 114 114 114 114 114 114 115 115	117. 386 114. 831 115. 308 113. 557 112. 630 112. 394 111. 911 111. 378 111. 336 111. 336 110. 895 110. 756 109. 516	85. 152 80. 896 79. 829 81. 205 80. 258 80. 504 81. 915 79. 490 79. 367 80. 403 81. 508 79. 265 79. 223 78. 108	36.819 41.058 41.425 41.219 41.791 43.293 43.529 43.813 45.325 41.019 40.715 40.671 39.925	1. 00 35. 71 1. 00 30. 65 1. 00 30. 90 1. 00 30. 09 1. 00 29. 81 1. 00 28. 60 1. 00 29. 81 1. 00 30. 57 1. 00 33. 23 1. 00 29. 79 1. 00 28. 83 1. 00 30. 43 1. 00 29. 05	B B B B B B B B	C C O N C C C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6629 6630 6631 6632 6633 6634 6635 6636 6637 6638 6639	CG CD1 CD2 C O N CA CB CG CD1	LEU	115 115 115 115 115 116 116 116 116	108. 449 108. 425 108. 645 108. 424 108. 370 107. 568 106. 479 106. 129 107. 277 106. 732	78. 108 77. 898 79. 001 76. 553 78. 923 77. 824 79. 901 79. 699 81. 001 81. 741 82. 988 80. 821	38. 890 37. 912 36. 872 37. 245 40. 932 41. 483 41. 196 42. 142 42. 861 43. 544 44. 229 44. 552	1.00 28.31 1.00 28.22 1.00 28.47 1.00 29.52 1.00 30.72 1.00 30.29 1.00 30.17 1.00 31.28 1.00 33.66 1.00 33.41 1.00 34.07	B B B B B B B	C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6640 6641 6642 6643 6644 6645 6646 6647 6648 6649 6650	C O N CA CB CG CD OE1	LEU LEU GLU GLU GLU GLU GLU	116 116 117 117 117 117 117 117 117	105. 270 104. 835 104. 724 103. 563 103. 813 102. 671 103. 023 103. 772 102. 566 102. 312	79. 215 79. 845 78. 091 77. 513 76. 017 75. 210 73. 728 73. 341 72. 956 77. 756 77. 583	41. 369 40. 401 41. 804 41. 159 40. 963 40. 368 40. 270 39. 340 41. 140 42. 009	1.00 34.07 1.00 30.44 1.00 30.69 1.00 30.37 1.00 29.50 1.00 30.63 1.00 32.07 1.00 33.58 1.00 32.53 1.00 32.35 1.00 29.67 1.00 27.89	B B B B B B B	C C O N C C C C O O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6651 6652 6653 6654 6655 6656 6657 6658 6659 6660 6661 6662	N CA CB CG CD1 CE1	TYR TYR TYR TYR TYR TYR TYR TYR	118 118 118 118 118 118 118 118 118 118	101. 235 7 99. 966 7 99. 928 7 100. 036 8 101. 256 8 101. 355 8 98. 915 8 99. 003 8 100. 222 8 100. 298 8 98. 814 7 99. 046 7	78. 184 78. 423 79. 818 80. 955 81. 301 82. 373 81. 703 82. 768 83. 101 84. 179 88. 240 77. 917 88. 450	41. 355 42. 026 42. 643 41. 659 41. 092 40. 210 41. 316 40. 439 39. 891 39. 039 41. 038 39. 874	1.00 27.89 1.00 29.27 1.00 28.00 1.00 29.37 1.00 29.69 1.00 30.04 1.00 31.36 1.00 30.41 1.00 31.17 1.00 31.56 1.00 33.43 1.00 27.66 1.00 26.73 1.00 27.22	B B B B B B B B B B B B B B B B B B B	0 N C C C C C C C C C C O C

										(Continued)
					FIC	G. 4-	1 3 7			(00110111111111111111111111111111111111
ATOM	6664	CA	ASN	119	96. 397	78. 261	40.659	1.00 27.10	В	С
ATOM	6665	CB	ASN		96. 422	79. 203	39. 449	1.00 27.22	B	Č
ATOM	6666	ĊĠ	ASN		95. 918	80. 599	39.777	1.00 27.62	B	Č
ATOM	6667		ASN	119	94.905	80.761	40. 456	1.00 26.76	B	0
ATOM	6668		ASN		96.613	81.612	39. 277	1.00 25.87	B	N
ATOM	6669	C	ASN		96.342	76.810	40.171	1.00 27.88	B	C
ATOM	6670	ŏ	ASN	119	95. 923	76. 534	39. 045	1.00 27.93	B	Ö
ATOM	6671	Ň	TYR		96. 771	75. 888	41.028	1.00 27.57	B	Ň
ATOM	6672	CA	TYR		96. 795	74. 466	40. 702	1.00 29.01	B	Ċ
ATOM	6673	CB	TYR		97. 396	73.669	41.866	1.00 30.85	B	č
ATOM	6674	ČĞ	TYR		97. 421	72. 171	41.635	1.00 32.83	В	č
ATOM	6675		TYR	120	98. 466	71. 568	40. 940	1.00 33.76	B	č
ATOM	6676		TYR	120	98. 484	70. 190	40. 717	1.00 35.03	B	č
ATOM	6677		TYR	120	96.389	71. 358	42. 100	1.00 34.41	B	č
ATOM	6678		TYR	120	96. 394	69. 981	41.880	1.00 34.35	В	č
ATOM	6679	CZ	TYR	120	97. 444	69. 403	41. 191	1.00 35.47	B	č
ATOM	6680	OH	TYR	120	97. 462	68. 039	40. 987	1.00 35.56	B	ŏ
ATOM	6681	C	TYR	120	95. 431	73.863	40. 364	1.00 29.17	B	č
ATOM	6682	Ŏ	TYR	120	94. 458	74. 034	41. 099	1.00 31.09	B	Ö
ATOM	6683	Ň	VAL	121	95. 368	73. 148	39. 248	1.00 27.53	B	Ň
ATOM	6684	CA	VAL	121	94. 136	72.487	38. 842	1.00 25.45	В	Č
ATOM	6685	CB	VAL	121	93. 358	73. 296	37. 785	1.00 25.23	B	č
ATOM	6686		VAL	121	92.105	72. 534	37. 376	1.00 22.18	В	č
ATOM	6687		VAL	121	92.974	74.666	38. 354	1.00 22.10	В	č
ATOM	6688	C	VAL	121	94. 527	71.130	38. 275	1.00 24.99	В	č
ATOM	6689	Ŏ	VAL	121	95. 188	71.031	37. 242	1.00 24.18	В	ŏ
ATOM	6690	Ň	LYS	122	94.124	70.082	38. 977	1.00 24.16	В	Ň
ATOM	6691	CA	LYS	122	94.464	68. 735	38. 570	1.00 24.24	В	č
ATOM	6692	CB	LYS	122	94. 295	67. 780	39. 754	1.00 23.05	В	č
ATOM	6693		LYS	122	94. 510	66.327	39. 390	1.00 20.04	В	č
ATOM	6694	ČĎ	LYS	122	94. 356	65.416	40. 589	1.00 20.19	В	č
ATOM	6695	CE	LYS	122	94. 402	63. 950	40. 161	1.00 20.85	В	č
ATOM	6696	NZ	LYS	122	93. 363	63.632	39. 136	1.00 18.96	В	Ň
ATOM	6697	C	LYS	122	93.692	68. 180	37. 387	1.00 24.10	В	Č
ATOM	6698	Ŏ	LYS	122	92.516	68. 488	37. 189	1.00 23.23	В	ŏ
ATOM	6699	Ň	GLN	123	94. 384	67.368	36. 592	1.00 23.36	B	N
ATOM	6700	CA	GLN	123	93. 758	66.691	35. 472	1.00 21.22	B	Č
ATOM	6701	CB	GLN	123	94. 455	67.007	34. 145	1.00 20.62	B	č
ATOM	6702	CG	GLN	123	93.689	66. 433	32. 948	1.00 23.42	B	č
ATOM	6703	CD	GLN	123	94. 242	66.857	31. 591	1.00 24.37	B	č
ATOM	6704		GLN	123	95. 399	66.606	31. 275	1.00 26.71	B	ŏ
ATOM	6705		GLN	123	93.402	67.493	30. 779	1.00 23.80	B	N
ATOM	6706	C	GLN	123	93.856	65.194	35. 805	1.00 20.06	B	Ĉ
ATOM	6707	0	GLN	123	93. 258	64.741	36. 786	1.00 17.04	B	ŏ
ATOM	6708	N	TRP	124	94.630	64. 438	35. 030	1.00 17.49	B	N
ATOM	6709	CA	TRP	124	94. 753	63.009	35. 276	1.00 16.75	B	Ċ
ATOM	6710	CB	TRP	124	95. 165	62.298	33. 984	1.00 16.19	B	Č
<b>ATOM</b>	6711	CG	TRP	124	94.351	62.735	32. 797	1.00 18.11	В	Č
ATOM	6712	CD2	TRP	124	92.939	63.014	32.764	1.00 17.55	В	Ċ

					FI	G. 4	- 138			(Continued)
ATOM ATOM	6713 6714	CE2 CE3	RP RP		92. 630 91. 909	63. 449	31.455	1.00 16.84 1.00 17.02	B B	C C
ATOM	6715	CD1			94. 819			1.00 19.00	В	Č
ATOM	6716	NE 1		124	93. 794			1.00 18.26	B	N
ATOM	6717	CZ2	TRP	124	91.331	63.815		1.00 15.16	B	C
ATOM	6718		TRP	124	90.615	63.305		1.00 16.85	B	Č
ATOM	6719	CH2	TRP	124	90. 342	63.737		1.00 16.12	В	Č
ATOM	6720	С	TRP	124	95.718	62.679		1.00 17.28	В	С
ATOM	6721	0	TRP	124	95.816	63.437	37. 397	1.00 17.74	В	0
ATOM	6722	N	ARG		96. 430	61.560	36.339	1.00 15.31	В	N
ATOM	6723	CA	ARG	125	97. 317	61.185		1.00 16.66	В	C
ATOM	6724	CB	ARG	125	97. 666	59. 702		1.00 16.96	В	C
ATOM	6725	CG	ARG	125	98. 908	59. 288		1.00 18.35	В	С
ATOM	6726	CD	ARG	125	98. 689	57. 987	38. 794	1.00 18.85	В	C
ATOM	6727	NE	ARG		98. 049	56.965	37. 972	1.00 18.57	В	N
ATOM	6728	CZ	ARG	125	97. 547	55. 842	38. 475	1.00 17.58	В	C
ATOM	6729		ARG	125	96. 972	54. 944		1.00 16.96	В	N
ATOM	6730		ARG	125	97. 626	55. 621	39. 776	1.00 17.03	В	N
ATOM	6731 6732	C	ARG	125	98. 582	62. 027	37. 568	1.00 18.54	В	C
ATOM ATOM	6733	O N	ARG HIS	125 126	99. 075 99. 099	62. 227	38. 674	1.00 18.06	В	0
ATOM	6734	CA	HIS	126	100. 300	62. 533 63. 353	36.454	1.00 20.06	В	N
ATOM	6735	CB	HIS	126	100. 300	62. 673	36. 487 35. 673	1.00 18.20 1.00 18.72	В	C
ATOM	6736	CG	HIS	126	101. 721	61. 295	36. 151	1.00 18.72	B B	C C
ATOM	6737		HIS	126	101. 519	60. 084	35. 581	1.00 19.88	В	C
ATOM	6738		HIS	126	102. 341	61.054	37. 360	1.00 20.00	В	. N
<b>ATOM</b>	6739		HIS	126	102.510	59. 753	37. 512	1.00 19.55	В	C
ATOM	6740		HIS	126	102.019	59. 142	36. 447	1.00 22.65	В	Ň
ATOM	6741	C	HIS	126	100.079	64.772	35. 966	1.00 18.28	В	Ċ
ATOM	6742	0	HIS	126	100.692	65.716	36. 462	1.00 18.27	B	ŏ
ATOM	6743	N	SER	127	99. 204	64.921	34.974	1.00 16.08	B	Ň
ATOM	6744	CA	SER	127	98. 936	66.230	34. 382	1.00 16.78	B	Ċ
ATOM	6745	CB	SER	127	98. 209	66.070	33.037	1.00 15.96	В	Č
ATOM	6746	0G	SER	127	96. 999	65. 349	33. 179	1.00 17.80	В	0
ATOM	6747	C	SER	127	98. 151	67. 203	35. 261	1.00 16.75	В	С
ATOM	6748	0	SER	127	97. 523	66.816	36. 247	1.00 17-88	В	0
ATOM	6749	N	TYR	128	98. 205	68. 473	34.873	1.00 15.65	В	N
ATOM	6750	CA	TYR	128	97. 520	69. 556	35. 559	1.00 17.91	В	С
ATOM	6751	CB	TYR	128	97. 815	69. 506	37.060	1.00 17.70	В	C
ATOM	6752	CG	TYR	128	99. 253	69. 796	37. 444	1.00 17.20	В	C
ATOM	6753		TYR	128	99. 725	71.107	37. 540	1.00 16.17	В	C
ATOM ATOM	6754 6755		TYR	128	101.036	71.375	37. 927	1.00 16.04	В	C
ATOM	6756		TYR TYR	128 128	100. 135	68. 759		1.00 17.12	В	C
ATOM	6757	CZ	TYR	128	101. 449 101. 891	69. 016 70. 322	38. 123 38. 216	1.00 15.90	В	C
ATOM	6758	OH	TYR	128	101. 891	70. 572	38. 603	1.00 17.19 1.00 20.16	В	C
ATOM	6759	C	TYR	128	97. 977	70. 897	34. 992	1.00 20.16	B B	0
ATOM	6760	ŏ	TYR	128	98. 970	70. 972	34. 268	1.00 19.77	В	C 0
ATOM	6761	N	THR	129	97. 239	71.955	35. 291	1.00 20.48	В	N N

										(Continued)
					FI	G. 4 -	139			(Continued)
ATOM	6762	CĂ	THR		97.647			1.00 22.26	В	Ċ
ATOM	6763	CB	THR		96. 599		33. 950	1.00 23.04	В	C
ATOM	6764	0G1			95. 353		34. 652	1.00 24.93	В	0
ATOM	6765	CG2			96. 428		32.634	1.00 22.70	В	C
ATOM	6766	C	THR		97. 856		36.069	1.00 22.23	В	C
ATOM	6767	0	THR		97. 462		37. 182	1.00 20.98	В	0
ATOM	6768	N	ALA		98. 474		35. 854	1.00 22.77	В	N
ATOM	6769	CA	ALA		98. 754	76. 222	36. 926	1.00 23.41	В	C
ATOM	6770	CB	ALA		99. 789		37. 859	1.00 19.73	В	C
ATOM	6771	C	ALA		99. 269		36. 338	1.00 26.66	В	C
ATOM	6772	0	ALA		99. 514	77. 632	35. 133	1.00 27.20	В	0
ATOM	6773	N	SER		99.414	78. 523	37. 199	1.00 29.67	В	N
ATOM	6774	CA	SER		99. 934	79.818	36. 796	1.00 30.14	В	C
ATOM	6775	CB	SER		99.056	80. 948	37. 333	1.00 30.56	В	C
ATOM	6776	OG C	SER	131	97. 713	80. 775	36. 913	1.00 32.67	В	0
ATOM ATOM	6777 6778	C	SER	131	101.290	79. 851	37. 463	1.00 31.00	В	C
ATOM	6779	O N	SER TYR	131	101.448	79. 334	38. 569	1.00 30.79	В	0
ATOM	6780	CA	TYR	132	102. 272	80. 438	36.792	1.00 32.02	В	N
ATOM	6781	CB	TYR	132 132	103.611	80. 506	37. 347	1.00 31.40	В	C
ATOM	6782	CG	TYR	132	104.558	79.634	36.519	1.00 28.72	В	C
ATOM	6783		TYR	132	104. 179 103. 082	78. 174 77. 721	36. 516	1.00 26.74	В	C
ATOM	6784		TYR	132	103. 082	76. 383	35. 791	1.00 26.31	В	C
ATOM	6785		TYR	132	102. 090	77. 250	35. 834 37. 283	1.00 26.45 1.00 26.58	В	C
ATOM	6786		TYR	132	104. 510	75. 911	37. 332	1.00 24.63	В	C
ATOM	6787	CZ	TYR	132	103. 415	75. 486	36. 609	1.00 24.03	B B	C C
ATOM	6788	OH	TYR	132	103. 410	74. 171	36. 677	1.00 25.63	В	0
ATOM	6789	C	TYR	132	104. 143	81. 929	37. 411	1.00 23.03	В	C
ATOM	6790	ŏ	TYR	132	103. 743	82. 790	36. 636	1.00 32.31	В	0
ATOM	6791	Ň	ASP	133	105.041	82. 165	38. 358	1.00 35.11	В	N
ATOM	6792	CA	ASP	133	105.674	83. 465	38. 539	1.00 36.35	В	C
<b>ATOM</b>	6793	CB	ASP	133	104. 954	84. 287	39.614	1.00 38.51	В	Č
ATOM	6794	CG	ASP	133	103. 732	85. 008	39.074	1.00 41.22	В	Č
ATOM	6795	0D1	ASP	133	102.805	84. 332	38. 580	1.00 42.20	B	ŏ
ATOM	6796		ASP	133	103.702	86. 253	39. 139	1.00 42.84	B	ŏ
ATOM	6797	C	ASP	133	107.112	83. 228	38. 954	1.00 35.61	B	č
ATOM	6798	0	ASP	133	107. 385	82.438	39.855	1.00 35.76	B	Ö
ATOM	6799	N	ILE	134	108.031	83.908	38. 285	1.00 35.21	B	Ň
ATOM	6800	CA	ILE	134	109.444	83.764	38.585	1.00 34.01	B	Ċ
ATOM	6801	CB	ILE	134	110.267	83.750	37. 287	1.00 33.62	В	Č
ATOM	6802	CG2		134	111.718	83. 392	37. 593	1.00 31.90	В	Ċ
ATOM	6803		ILE	134	109.649	82.737	36.312	1.00 32.72	В	С
ATOM	6804	CD1	ILE	134	110. 204	82. 794	34.909	1.00 31.29	В	С
ATOM	6805	C	ILE	134	109.887	84. 911	39. 483	1.00 34.02	В	С
ATOM	6806	0	ILE	134	109. 521	86.065	39. 261	1.00 33.25	В	0
ATOM	6807	N	TYR	135	110.662	84. 573	40.507	1.00 35.09	В	N
ATOM	6808	CA	TYR	135	111.167	85. 539	41. 475	1.00 36.09	В	Ċ
ATOM	6809	CB	TYR	135	110.657	85. 174	42.868	1.00 36.02	В	C
ATOM	6810	CG	TYR	135	111.222	86.011	44.000	1.00 36.66	В	C

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					(Continued)
				FIG. 4-140	(00110111404)
ATOM	6811	CD1 TYR	135	110. 635 87. 222 44. 363 1. 00 34. 73 B	C
ATOM	6812	CE1 TYR	135	110. 635 87. 222 44. 363 1. 00 34. 73 B 111. 134 87. 971 45. 424 1. 00 34. 55 B	C C
ATOM	6813	CD2 TYR	135	112. 332 85. 573 44. 729 1. 00 35. 12 B	č
ATOM	6814	CE2 TYR	135	112. 839 86. 316 45. 786 1. 00 35. 07 B	Č
<b>ATOM</b>	6815	CZ TYR	135	112. 235 87. 515 46. 131 1. 00 35. 31 B	С
<b>ATOM</b>	6816	OH TYR	135	112. 740 88. 258 47. 179 1. 00 35. 05 B	0
ATOM	6817	C TYR	135	112.688 85.511 41.470 1.00 38.19 B	С
ATOM	6818	0 TYR	135	113. 293 84. 517 41. 873 1. 00 37. 81 B	0
ATOM	6819	N ASP	136	113. 304 86. 600 41. 014 1. 00 40. 56 B	N
ATOM	6820	CA ASP	136	114. 759 86. 692 40. 965 1. 00 42. 09 B	C
ATOM ATOM	6821 6822	CB ASP CG ASP	136 136	115. 187 87. 969 40. 237 1. 00 42. 45 B 116. 690 88. 051 40. 030 1. 00 43. 61 B	C C
ATOM	6823	OD1 ASP	136	117. 107 88. 577 38. 978 1. 00 45. 53 B	0
ATOM	6824	OD1 ASP	136	117. 456 87. 602 40. 911 1. 00 41. 77 B	0
ATOM	6825	C ASP	136	115. 316 86. 679 42. 382 1. 00 43. 14 B	č
ATOM	6826	0 ASP	136	114.972 87.522 43.209 1.00 42.49 B	Ö
ATOM	6827	N LEU	137	116. 181 85. 713 42. 656 1. 00 44. 92 B	N
ATOM	6828	CA LEU	137	116. 761 85. 577 43. 978 1. 00 48. 26 B	С
ATOM	6829	CB LEU	137	117. 219 84. 135 44. 182 1. 00 48. 88 B	C
ATOM	6830	CG LEU	137	116.058 83.136 44.117 1.00 49.07 B	C C
ATOM	6831	CD1 LEU	137	116. 582 81. 716 43. 991 1. 00 50. 17 B	C
ATOM	6832	CD2 LEU	137	115. 199 83. 291 45. 361 1. 00 48. 91 B	C
ATOM ATOM	6833 6834	C LEU O LEU	137 137	117. 908 86. 544 44. 228 1. 00 50. 19 B 118. 309 86. 750 45. 370 1. 00 51. 45 B	C
ATOM	6835	N ASN	138	118. 309 86. 750 45. 370 1. 00 51. 45 B 118. 429 87. 139 43. 160 1. 00 52. 26 B	O N
ATOM	6836	CA ASN	138	119. 522 88. 096 43. 280 1. 00 53. 21 B	C
ATOM	6837	CB ASN	138	120. 330 88. 151 41. 983 1. 00 54. 36 B	Č
ATOM	6838	CG ASN	138	120. 728 86. 775 41. 484 1. 00 56. 39 B	č
ATOM	6839	OD1 ASN	138	121. 232 85. 945 42. 244 1. 00 57. 23 B	Ō
ATOM	6840	ND2 ASN	138	120. 512 86. 530 40. 194 1. 00 56. 67 B	N
ATOM	6841	C ASN	138	118. 935 89. 472 43. 567 1. 00 54. 11 B	C
ATOM	6842	0 ASN	138	119. 259 90. 101 44. 571 1. 00 54. 39 B	0
ATOM	6843	N LYS	139	118. 064 89. 929 42. 675 1. 00 55. 06 B	N
ATOM	6844	CA LYS	139	117. 417 91. 228 42. 814 1. 00 56. 16 B	C
ATOM ATOM	6845 6846	CB LYS	139 139	116. 807 91. 657 41. 480 1. 00 56. 75 B 117. 726 91. 520 40. 290 1. 00 58. 34 B	C
ATOM	6847	CD LYS	139	117. 726 91. 520 40. 290 1. 00 58. 34 B 116. 996 91. 874 39. 006 1. 00 59. 63 B	C
ATOM	6848	CE LYS	139	117. 887 91. 650 37. 793 1. 00 61. 32 B	C
ATOM	6849	NZ LYS	139	117. 196 91. 995 36. 518 1. 00 62. 59 B	N
ATOM	6850	C LYS	139	116. 302 91. 183 43. 857 1. 00 56. 78 B	Ċ
ATOM	6851	0 LYS	139	115.669 92.202 44.139 1.00 57.22 B	Ö
ATOM	6852	N ARG	140	116.061 90.006 44.425 1.00 57.14 B	N
ATOM	6853	CA ARG	140	114. 994 89. 838 45. 409 1. 00 57. 44 B	C
ATOM	6854	CB ARG	140	115. 433 90. 341 46. 787 1. 00 58. 40 B	C
ATOM	6855	CG ARG	140	116. 063 89. 260 47. 649 1. 00 61. 65 B	C
ATOM	6856 6857	CD ARG NE ARG	140	116.091 89.658 49.116 1.00 64.17 B	C
ATOM ATOM	6858	CZ ARG	140 140	116. 578 88. 575 49. 972 1. 00 67. 20 B 115. 979 87. 394 50. 112 1. 00 68. 02 B	N C
ATOM	6859	NH1 ARG	140	114. 857 87. 124 49. 453 1. 00 68. 21 B	N N
111 001	5500	12.0	. 10	111.00 00.121 10.100 1.00 00.21 D	11

			ान	G 4	-141	1		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6861 C A 6862 O A 6863 N G 6864 CA G 6865 CB G 6866 CG G 6867 CD G 6868 OE1 G 6869 NE2 G 6870 C G 6871 O G 6872 N LI	RG 140 RG 140 LN 141	116. 507 113. 697 113. 067 113. 315 112. 088 112. 367 113. 166 113. 078 113. 414 112. 620 111. 500 112. 230 110. 186	7 86. 478 7 90. 537 7 91. 225 5 90. 363 8 90. 947 7 92. 292 6 92. 203 8 93. 477 94. 562 93. 350 89. 965 89. 362 89. 794	7 44. 994 5 45. 795 8 43. 733 7 43. 205 9 42. 522 9 41. 227 9 40. 400 9 40. 875 39. 158 9 42. 198 9 41. 418 9 42. 213	1.00 68.11 1.00 56.16 1.00 56.03 1.00 54.56 1.00 53.90 1.00 55.16 1.00 57.86 1.00 59.30 1.00 60.96 1.00 58.33 1.00 52.05 1.00 52.50	B B B B B B B B B	(Continued)  N C O N C C C C C C C O N N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6873 CA LI 6874 CB LI 6875 CG LI 6876 CD1 LE 6877 CD2 LE 6878 C LE 6879 O LE 6880 N II 6881 CA IL 6882 CB IL 6883 CG2 IL 6884 CG1 IL 6885 CD1 IL	EU 142 EU 142 EU 142 EU 142 EU 142 EU 142 EU 143 EE 143 EE 143 EE 143 EE 143 EE 143	109. 564 108. 196 107. 024 106. 354 106. 014 109. 423 108. 890 109. 917 109. 835 110. 442 110. 204 111. 937 112. 675	88. 861 88. 415	41. 284 41. 815 41. 857 40. 489 42. 905 39. 896 39. 736 38. 891 37. 520 36. 535 35. 099 36. 810 35. 755	1. 00 48. 86 1. 00 48. 84 1. 00 48. 67 1. 00 49. 83 1. 00 47. 77 1. 00 47. 71 1. 00 48. 46 1. 00 45. 67 1. 00 42. 98 1. 00 41. 35 1. 00 41. 52 1. 00 42. 12	B B B B B B B B	C C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6886 C IL 6887 O IL 6888 N TH 6889 CA TH 6890 CB TH 6891 OG1 TH 6892 CG2 TH 6893 C TH 6894 O TH 6895 N GL 6896 CA GL 6897 CB GL	E 143 E 144 R 145 J 145 J 145	108. 385 107. 522 108. 128 106. 789 106. 332 107. 329 106. 124 106. 716 105. 689 107. 802 107. 857 109. 069	89. 481 88. 617 90. 680 91. 065 92. 344 93. 358 92. 080 91. 294 91. 729 90. 988 91. 168 92. 031	37. 131 37. 292 36. 620 36. 202 36. 915 36. 760 38. 388 34. 701 34. 186 34. 001 32. 557 32. 202	1.00 42.92 1.00 41.84 1.00 43.57 1.00 44.05 1.00 42.77 1.00 45.33 1.00 43.31 1.00 44.53 1.00 46.08 1.00 45.05 1.00 46.88 1.00 50.14	B B B B B B B B	C C O N C C C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6898 CG GLU 6899 CD GLU 6900 OE1 GLU 6901 OE2 GLU 6902 C GLU 6903 O GLU 6904 N GLU 6905 CA GLU 6906 CB GLU 6907 CG GLU 6908 CD GLU	J 145 J 145 J 145 J 145 J 146 J 146 J 146 J 146	108. 648 107. 236 107. 241 108. 592 108. 916	89. 695 88. 458 88. 284 89. 321	30. 714 29. 932 29. 232 28. 163	1.00 55.05 1.00 57.57 1.00 60.26 1.00 59.47 1.00 46.87 1.00 46.76 1.00 45.37 1.00 45.82 1.00 45.55 1.00 45.65	B B B B B B B	C C O O C O N C C C C

D. T. G. L. L. L. L. C. (Co											
				FIG. 4-142							
ATOM ATOM	6909 6910			107. 685 88. 081 26. 543 1. 00 45. 03 B 107. 641 90. 269 26. 387 1. 00 45. 44 B							
ATOM	6911	C GLU		107. 641 90. 269 26. 387 1. 00 45. 44 B 106. 978 87. 241 30. 821 1. 00 46. 25 B							
ATOM	6912			107. 805 86. 334 30.912 1. 00 47. 62 B							
ATOM	6913		147	105. 823 87. 221 31. 474 1. 00 44. 79 B							
ATOM	6914			105. 475 86. 119 32. 360 1. 00 43. 34 B							
ATOM	6915	CB ARG		104. 469 86. 595 33. 410 1. 00 44. 21 B	C						
ATOM	6916	CG ARG		104. 998 87. 678 34. 320 1. 00 46. 85 B	C						
ATOM ATOM	6917 6918	CD ARG NE ARG	147	103. 995 88. 007 35. 410 1. 00 49. 84 B	C						
ATOM	6919	CZ ARG	147 147	102. 805 88. 651 34. 866 1. 00 53. 22 B 101. 733 88. 970 35. 584 1. 00 54. 21 B	N						
ATOM	6920	NH1 ARG	147	101.733 88.970 35.584 1.00 54.21 B 101.696 88.699 36.884 1.00 53.97 B	C						
ATOM	6921	NH2 ARG	147	100. 701 89. 569 34. 999 1. 00 54. 56 B	N N						
ATOM	6922	C ARG	147	104. 905 84. 894 31. 648 1. 00 41. 06 B	C						
ATOM	6923	0 ARG	147	104. 304 84. 996 30. 580 1. 00 41. 00 B	ŏ						
ATOM	6924	N ILE	148	105. 103 83. 732 32. 259 1. 00 38. 31 B	N						
ATOM	6925	CA ILE	148	104. 590 82. 485 31. 721 1. 00 35. 74 B	С						
ATOM ATOM	6926 6927	CB ILE	148	105. 019 81. 305 32. 616 1. 00 35. 07 B	C						
ATOM	6928	CG2 ILE	148 148	104. 458 79. 996 32. 073 1. 00 34. 22 B	C						
ATOM	6929	CD1 ILE	148	106. 549 81. 255 32. 679 1. 00 33. 62 B 107. 104 80. 131 33. 517 1. 00 34. 57 B	C						
ATOM	6930	C ILE	148	107. 104 80. 131 33. 517 1. 00 34. 57 B 103. 069 82. 641 31. 709 1. 00 34. 54 B	C						
<b>ATOM</b>	6931	0 ILE	148	102. 492 83. 155 32. 664 1. 00 35. 51 B	C 0						
ATOM	6932	N PRO	149	102.401 82.199 30.631 1.00 32.42 B	N						
ATOM	6933	CD PRO	149	102. 929 81. 387 29. 525 1. 00 30. 91 B	Ċ						
ATOM	6934	CA PRO	149	100. 942 82. 321 30. 526 1. 00 31. 27 B	Č						
ATOM ATOM	6935	CB PRO	149	100. 632 81. 762 29. 134 1. 00 31. 04 B	C						
ATOM	6936 6937	CG PRO C PRO	149	101. 963 81. 707 28. 437 1. 00 31. 84 B	C						
ATOM	6938	0 PRO	149 149	100. 187 81. 549 31. 592 1. 00 31. 48 B 100. 733 80. 643 32. 221 1. 00 30. 85 B	C						
ATOM	6939	N ASN	150	100. 733 80. 643 32. 221 1. 00 30. 85 B 98. 927 81. 919 31. 794 1. 00 31. 40 B	0 N						
<b>ATOM</b>	6940	CA ASN	150	98. 085 81. 206 32. 744 1. 00 31. 30 B	N C						
ATOM	6941	CB ASN	150	96. 832 82. 019 33. 108 1. 00 31. 58 B	C						
ATOM	6942	CG ASN	150	97. 086 83. 037 34. 211 1. 00 32. 97 B	č						
ATOM	6943	OD1 ASN	150	97. 676 82. 715 35. 244 1. 00 31. 95 B	0						
ATOM	6944	ND2 ASN	150	96. 624 84. 271 34. 004 1. 00 33. 51 B	N						
ATOM ATOM	6945 6946	C ASN O ASN	150	97. 673 79. 929 32. 013 1. 00 30. 52 B	C						
ATOM	6947	N ASN	150 151	97. 722 79. 864 30. 777 1. 00 29. 37 B	0						
ATOM	6948	CA ASN	151	97. 269 78. 917 32. 768 1. 00 30. 16 B 96. 859 77. 657 32. 170 1. 00 29. 53 B	N						
ATOM	6949	CB ASN	151	96. 859 77. 657 32. 170 1. 00 29. 53 B 95. 715 77. 881 31. 186 1. 00 33. 04 B	C						
ATOM	6950	CG ASN	151	94. 489 78. 474 31. 850 1. 00 36. 73 B	C C						
ATOM	6951	OD1 ASN	151	94.530 79.586 32.376 1.00 38.47 B	Õ						
ATOM	6952	ND2 ASN	151	93.389 77.729 31.831 1.00 40.28 B	N						
ATOM	6953	C ASN	151	98. 023 76. 997 31. 452 1. 00 28. 44 B	C						
ATOM ATOM	6954 6955	O ASN N THR	151 152	97. 856 76. 412 30. 382 1. 00 27. 56 B	0						
ATOM	6956	CA THR	152	99. 212 77. 111 32. 035 1. 00 26. 08 B 100. 384 76. 489 31. 452 1. 00 24. 37 B	N						
ATOM	6957	CB THR	152	100. 384 76. 489 31. 452 1. 00 24. 37 B 101. 682 77. 069 32. 046 1. 00 25. 30 B	C						
				101.002 11.003 02.040 1.00 20.50 B	С						

										(Continued)
					FI	G. 4 -	143			(Continued)
ATOM	6958	0G1			101.862		31.566	1.00 25.07	В	0
ATOM	6959	CG2			102. 882		31.643	1.00 24.98	В	C
ATOM	6960	C	THR		100. 257			1.00 22.65	В	C
ATOM	6961	0	THR		99. 908		32.912	1.00 21.72	В	0
ATOM	6962	N	GLN		100. 531	74.160	30. 815	1.00 21.08	В	N
ATOM	6963	CA	GLN	153	100.407	72. 730	31.010	1.00 20.14	В	C
ATOM	6964	CB	GLN	153	100.023	72.081	29. 691	1.00 20.22	В	C
ATOM	6965	CG	GLN	153	98. 688		29. 166	1.00 20.23	В	C
ATOM	6966	CD	GLN	153	98. 577	72.461	27.669	1.00 21.29	В	C
ATOM	6967	OE1		153	99. 365	73.054	26. 939	1.00 24.47	В	0
ATOM	6968	NE 2		153	97.600	71.703	27. 200	1.00 20.51	В	N
ATOM ATOM	6969 6970	C 0	GLN GLN	153 153	101.650	72.076	31.578	1.00 20.86	В	C
ATOM	6971	N	TRP		101.574	70.996	32. 154	1.00 22.44	В	0
ATOM	6972	CA	TRP	154 154	102. 794 104. 043	72.729	31.422	1.00 20.43	В	N C
ATOM	6973	CB	TRP	154	104. 043	72. 189	31.934	1.00 18.53	В	C
ATOM	6974	CG	TRP	154	104. 387	70. 868 70. 257	31.234 31.719	1.00 18.88	В	C
ATOM	6975	CD2		154	105. 891	69. 559	32. 955	1.00 19.59 1.00 17.98	B B	C C
ATOM	6976	CE2		154	107. 261	69. 232	33. 019	1.00 17.38	В	C
ATOM	6977		TRP	154	105.058	69.184	34. 015	1.00 16.08	В.	Č
ATOM	6978		TRP	154	106.893	70.316	31. 101	1.00 20.53	В	Č
ATOM	6979		TRP	154	107.849	69.705	31.877	1.00 22.41	В	N
ATOM	6980		TRP	154	107. 819	68. 545	34. 104	1.00 18.81	B	Č
ATOM	6981		TRP	154	105.614	68. 502	35.097	1.00 14.46	B	č
ATOM	6982		TRP	154	106.981	68.191	35. 130	1.00 14.70	B	č
ATOM	6983	C	TRP	154	105.172	73.186	31.757	1.00 18.38	B	Č
ATOM	6984	0	TRP	154	105.159	74.005	30.840	1.00 17.07	B	0
ATOM	6985	N	VAL	155	106.139	73.118	32.658	1.00 18.34	В	N
ATOM	6986	CA	VAL	155	107. 280	74.010	32.627	1.00 20.45	В	C
ATOM.	6987	CB	VAL	155	107.030	75. 298	33.457	1.00 21.97	В	C
ATOM	6988		VAL	155	106.881	74.954	34.937	1.00 21.60	В	C C C
ATOM	6989		VAL	155	108. 180	76. 281	33. 260	1.00 20.89	В	
ATOM -	6990	C	VAL	155	108. 439	73. 255	33. 236	1.00 21.60	В	С
ATOM	6991	0	VAL	155	108. 241	72.379	34.075	1.00 21.26	В	0
ATOM	6992	N	THR	156	109.647	73. 590	32.806	1.00 22.32	В	N
ATOM	6993	CA	THR	156	110. 826	72. 929	33. 325	1.00 23.44	В	C
ATOM	6994	CB	THR	156	111.028	71.569	32.677	1.00 24.53	В	C
ATOM ATOM	6995	0G1	THR	156	112. 350	71.113	32. 972	1.00 25.64	В	0
ATOM	6996 6997	CG2 C	THR	156	110.856	71.662	31.166	1.00 25.95	В	C
ATOM	6998	Ŏ	THR	156 156	112.092	73. 727	33. 094	1.00 24.37	В	C .
ATOM	6999	N	TRP	150	112. 305 112. 929	74. 274	32.010	1.00 25.56	В	0
ATOM	7000	CA	TRP	157	114. 192	73. 795 74. 500	34. 123 34. 021	1.00 23.78 1.00 22.95	В	N
ATOM	7001	CB	TRP	157	114. 192	74. 650	35. 399	1.00 22.95	B B	C C
ATOM	7002	CG	TRP	157	114. 239	75.678	36. 293	1.00 22.02	В	Č
ATOM	7003	CD2		157	114. 203	77. 091	36. 070	1.00 21.39	В	C
ATOM	7004	CE2		157	113. 533	77.668	37. 177	1.00 23.29	В	Č
ATOM	7005	CE3		157	114.658	77. 928	35. 046	1.00 21.12	В	Č
ATOM	7006	CD1		157	113.621	75.460	37. 492	1.00 22.04	B	č

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					•					(Continued)
					FΙ	G. 4	-144			(Continued)
ATOM	7007		1 TRP	157	113. 193			1.00 22.01	В	N
ATOM	7008		2 TRP	157	113. 317			1.00 22.77	В	C
ATOM ATOM	7009		3 TRP	157	114.445			1.00 22.58	В	C
ATOM	7010 7011	Cn	2 TRP TRP	157	113.779			1.00 21.74	В	C
ATOM	7011		TRP	157 157	115.096	73.640		1.00 22.79	В	C
ATOM	7012		SER	158	114.789			1.00 23.16	В	0
ATOM	7014		SER	158	116. 198 117. 154	73.441	32.697	1.00 21.93	В	N
ATOM	7015	CB	SER	158	118. 104	74.377	31. 928 31. 172	1.00 22.68 1.00 23.20	B B	C
ATOM	7016	OG	SER	158	118. 550	75. 444		1.00 23.20	В	C 0
ATOM	7017	Č	SER	158	117. 898			1.00 22.34	В	C
ATOM	7018	ŏ	SER	158	117. 800		34. 198	1.00 23.12	В	0
<b>ATOM</b>	7019	N	PRO	159	118.641		32.650	1.00 23.10	В	N
ATOM	7020	CD	PRO	159	118. 927		31.307	1.00 23.69	B	Č
<b>ATOM</b>	7021	CA	PRO	159	119.362		33.679	1.00 24.10	В	č
<b>ATOM</b>	7022	CB	PRO	159	120.041		32.886	1.00 24.45	B	č
ATOM	7023	CG	PRO	159	119.230		31.599	1.00 23.97	B	Č
ATOM	7024	C	PRO	159	120. 384	71.738	34.391	1.00 25.41	В	Ċ
ATOM	7025	0	PRO	159	120. 598		35.589	1.00 26.39	В	0
ATOM	7026	N	VAL	160	121.014		33.627	1.00 27.71	В	N
ATOM	7027	CA	VAL	160	122.031	73. 517	34. 146	1.00 29.28	В	C
ATOM	7028	CB	VAL	160	123. 383		33. 438	1.00 30.65	В	C
ATOM	7029		VAL	160	124. 421	74. 249	33. 939	1.00 33.70	В	C
ATOM	7030		VAL	160	123. 844		33.670	1.00 31.96	В	С
ATOM ATOM	7031	C	VAL	160	121.606	74. 952	33. 885	1.00 29.74	В	С
ATOM	7032 7033	O N	VAL	160	120.889	75. 224	32. 923	1.00 30.93	В	0
ATOM	7034	CA	GLY GLY	161	122.043	75. 866	34. 745	1.00 29.32	В	N
ATOM	7035	C	GLY	161 161	121. 706	77. 266	34. 562	1.00 28.43	В	C
ATOM	7036	Õ	GLY	161	120. 289	77.645	34.944	1.00 28.19	В	C
ATOM	7037	N	HIS	162	119.839 119.584	77. 359 78. 296	36.053	1.00 30.02	В	0
ATOM	7038	CA	HIS	162	118. 222	78. 721	34. 025 34. 290	1.00 26.53 1.00 25.12	В	N
ATOM	7039	CB	HIS	162	118. 214	79. 959	34. <i>290</i> 35. 177	1.00 25.12	B B	C C
ATOM	7040		HIS	162	119.019	81.094	34. 629	1.00 20.70	В	-
ATOM	7041		HIS	162	118.664	82.148	33.857	1.00 29.24	В	C C
ATOM	7042		HIS	162	120. 378	81. 208	34. 830	1.00 29.95	В	N
ATOM	7043		HIS	162	120.824	82. 283	34. 207	1.00 30.75	В	Č
ATOM	7044	NE2	HIS	162	119.804	82.871	33.608	1.00 30.77	В	N
ATOM	7045	C	HIS	162	117.384	79.021	33.059	1.00 24.68	B	Č
ATOM	7046	0	HIS	162	116.730	80.061	33.007	1.00 24.17	B	Ŏ
ATOM	7047	N	LYS	163	117.406	78. 135	32.067	1.00 22.79	B	N
ATOM	7048	CA	LYS	163	116.575	78.340	30.889	1.00 23.10	В	Ċ
ATOM	7049	CB	LYS	163	117. 113	77. 578	29.675	1.00 22.90	В	Ċ
ATOM	7050	CG	LYS	163	118. 367	78. 184	29.063	1.00 23.40	В	С
ATOM	7051	CD	LYS	163	118. 797	77. 407	27. 841	1.00 22.69	В	С
ATOM ATOM	7052 7053	CE NZ	LYS	163	120. 103	77. 930	27. 282	1.00 23.67	В	C
ATOM	7054	C	LYS LYS	163 163	120.616	77.045	26. 195	1.00 24.56	В	N
ATOM	7055	0	LYS	163	115. 215	77.779	31. 266	1.00 24.15	В	C
111 Out	1000	J	ri7	100	115.079	77. 104	32. 282	1.00 24.69	В	0

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						~ 4				(Continued)
					FIC	э. 4-	147			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7154 7155 7156 7157 7158 7159 7160 7161 7162 7163 7164 7165 7166 7167 7170 7171 7172 7173 7174 7175 7177 7178 7177 7178 7179 7180 7181 7182 7183 7184 7185 7186 7187 7188 7189 7190 7191 7192	CG1 CD1 CONCA CBCG CDOE2 CONCA CBCG CONCA CBCG OD1 ND2	LYS	175 175 175 175 175 175 176 176 176 176 176 177 177 177 177 177	112. 940 112. 090 110. 809 109. 876 110. 479 110. 664 114. 382 114. 662 115. 294 116. 710 117. 572 118. 942 117. 697 116. 377 116. 956 117. 910 116. 182 116. 901 118. 342 119. 324 120. 511 118. 914 114. 762 113. 905 114. 495 115. 451 113. 160 113. 383 114. 862 112. 451 111. 225 113. 198 112. 560 113. 211 114. 454 115. 419 114. 437	81. 269 81. 725 82. 428 82. 551 83. 384 84. 791 81. 107 80. 355 81. 813 81. 764 82. 363 82. 730 81. 354 80. 941 82. 528 82. 251 83. 489 84. 296 85. 611 85. 440 85. 272 84. 988 85. 433 84. 569 85. 007 84. 357 84. 563 85. 834 85. 859 86. 912 88. 188 89. 329 89. 860 89. 131 91. 142 88. 540	27. 608 28. 794 28. 413 29. 611 30. 725 30. 307 28. 064 28. 999 27. 401 27. 749 26. 624 27. 146 25. 483 24. 861 29. 044 29. 768 29. 330 30. 543 30. 241 29. 770 30. 916 30. 642 32. 088 31. 034 30. 268 32. 323 33. 367 32. 894 34. 402 34. 587 32. 547 32. 446 32. 346 32. 321 32. 807 32. 807 32. 137 31. 915 31. 806	1. 00 28. 47 1. 00 28. 38 1. 00 29. 46 1. 00 32. 27 1. 00 31. 57 1. 00 33. 57 1. 00 28. 36 1. 00 28. 36 1. 00 28. 58 1. 00 28. 19 1. 00 27. 21 1. 00 25. 54 1. 00 27. 38 1. 00 29. 16 1. 00 31. 44 1. 00 33. 96 1. 00 35. 87 1. 00 37. 59 1. 00 37. 59 1. 00 39. 82 1. 00 40. 43 1. 00 35. 55 1. 00 36. 07 1. 00 35. 46 1. 00 35. 46 1. 00 35. 40 1. 00 37. 12 1. 00 35. 44 1. 00 36. 89 1. 00 37. 31 1. 00 37. 34 1. 00 37. 34 1. 00 37. 36 1. 00 37. 31 1. 00 37. 36 1. 00 37. 38	B B B B B B B B B B B B B B B B B B B	CCCCCNCONCCCCCONCCCCONCCCCONCCCCONCCCONCCCCCONCCCCONCCCCONCCCCONCCCCCONCCCCONCCCCONCCCCONCCCCONCCCCCONCCCCONCCCCONCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCONCCCCCC
ATOM ATOM ATOM ATOM	7192 7193 7194 7195 7196	C O N CA CB	ASN ASN LEU LEU LEU	179 179 180 180 180	112. 573 112. 205 112. 995 113. 030 114. 357	88. 540 89. 650 87. 608 87. 875 87. 417	30. 535 30. 159 29. 689 28. 260 27. 662	1. 00 36. 88 1. 00 38. 11 1. 00 35. 31 1. 00 34. 44 1. 00 35. 92	B B B B	C O N C C
ATOM ATOM ATOM ATOM ATOM	7197 7198 7199 7200 7201	CD2 C O	LEU LEU LEU LEU	180 180 180 180 180	115. 621 116. 828 115. 522 111. 898 111. 406	88. 014 87. 572 89. 536 87. 166 86. 149	28. 279 27. 470 28. 303 27. 547 28. 015	1. 00 36. 91 1. 00 37. 09 1. 00 37. 24 1. 00 33. 52 1. 00 32. 50	B B B B	C C C O
ATOM	7202	N	PRO	181	111.462	87. 704	26. 400	1.00 34.20	В	N

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			FIG. 4-148	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7203 CD PR 7204 CA PR 7205 CB PR 7206 CG PR 7207 C PR 7208 O PR 7209 N SEI 7210 CA SEI 7211 CB SEI 7212 OG SEI 7213 C SEI 7214 O SEI 7215 N TYF 7216 CA TYF 7217 CB TYF 7218 CG TYF 7219 CD1 TYR 7220 CE1 TYR	0 181 0 181 0 181 0 181 0 181 0 181 R 182 R 182 R 182 R 182 R 182 R 183 R 183 R 183 R 183 R 183	111.853       88.984       25.784       1.00 33.21       B         110.373       87.075       25.645       1.00 33.57       B         110.337       87.890       24.357       1.00 33.27       B         110.691       89.259       24.846       1.00 33.21       B         110.681       85.608       25.397       1.00 33.03       B         111.829       85.180       25.497       1.00 33.18       B         109.654       84.838       25.070       1.00 33.87       B         109.835       83.415       24.829       1.00 32.06       B         108.752       82.622       25.547       1.00 31.33       B         107.505       82.817       24.909       1.00 30.50       B         109.759       83.117       23.350       1.00 31.89       B         109.077       83.812       22.606       1.00 33.14       B         110.453       81.677       21.532       1.00 30.47       B         111.832       81.159       21.118       1.00 30.68       B         112.962       82.117       21.408       1.00 32.39       B	C C C C O N C C O N C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7220 CE1 TYR 7221 CD2 TYR 7222 CE2 TYR 7223 CZ TYR 7224 OH TYR 7225 C TYR 7226 O TYR 7227 N ARG 7228 CA ARG 7229 CB ARG 7230 CG ARG 7231 CD ARG 7231 CD ARG 7232 NE ARG 7232 NE ARG 7233 CZ ARG 7234 NH1 ARG 7235 NH2 ARG 7236 C ARG 7237 O ARG 7238 N ILE	183 183 183 183 183 183 184 184 184 184 184 184 184 184 184 184	114.517       83.134       22.977       1.00       33.30       B         113.492       82.926       20.398       1.00       33.06       B         114.520       83.832       20.667       1.00       34.20       B         115.028       83.932       21.959       1.00       34.92       B         116.036       84.832       22.233       1.00       34.60       B         109.423       80.568       21.384       1.00       29.28       B         109.387       79.645       22.196       1.00       29.66       B         108.579       80.659       20.364       1.00       27.67       B         107.573       79.631       20.148       1.00       26.57       B         106.327       80.217       19.476       1.00       26.06       B         105.215       79.191       19.285       1.00       28.64       B         103.860       79.825       19.004       1.00       30.29       B         102.827       78.805       18.831       1.00       31.47       B         101.526       79.052       18.706       1.00       29.99       B <td< td=""><td>C C C C C C C C C C N C C C N C N C C C N N C C C N N C N N C C N N C N N C O N</td></td<>	C C C C C C C C C C N C C C N C N C C C N N C C C N N C N N C C N N C N N C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7239 CA ILE 7240 CB ILE 7241 CG2 ILE 7242 CG1 ILE 7243 CD1 ILE 7244 C ILE 7245 O ILE 7246 N THR 7247 CA THR 7248 CB THR 7249 OG1 THR 7250 CG2 THR 7251 C THR	185 185 185 185 185 185 186 186 186 186	109. 112       76. 303       19. 165       1. 00       22. 88       B         109. 773       75. 319       20. 159       1. 00       23. 12       B         110. 492       74. 216       19. 405       1. 00       22. 56       B         110. 753       76. 067       21. 064       1. 00       22. 32       B         111. 869       76. 770       20. 324       1. 00       21. 93       B         108. 148       75. 516       18. 275       1. 00       24. 00       B         108. 569       74. 930       17. 275       1. 00       25. 07       B         106. 866       75. 489       18. 632       1. 00       22. 70       B         105. 886       74. 750       17. 840       1. 00       23. 30       B         105. 490       73. 440       18. 541       1. 00       27. 42       B         106. 665       72. 491       18. 595       1. 00       19. 86       B         104. 620       75. 548       17. 537       1. 00       23. 45       B	C C C C C C C C C C C C C C C C C C C

			FIG. 4-149								
ATOM ATOM ATOM ATOM ATOM	7252 0 THI 7253 N TRI 7254 CA TRI 7255 CB TRI 7256 CG TRI	187 187 187	104. 266       76. 469       18. 265       1. 00       22. 05       B         103. 935       75. 179       16. 457       1. 00       24. 88       B         102. 717       75. 876       16. 049       1. 00       25. 32       B         103. 007       76. 767       14. 832       1. 00       25. 43       B         104. 159       77. 694       15. 025       1. 00       25. 95       B	O N C C							
ATOM ATOM	7257 CD2 TRI 7258 CE2 TRI	187	104. 159       77. 694       15. 025       1. 00       25. 95       B         104. 093       79. 092       15. 321       1. 00       26. 73       B         105. 420       79. 548       15. 487       1. 00       26. 07       B	C C C							
ATOM ATOM	7259 CE3 TRF 7260 CD1 TRF	187 187	103. 041 80. 007 15. 464 1. 00 27. 09 B 105. 485 77. 367 15. 019 1. 00 26. 93 B	C C							
ATOM ATOM ATOM	7261 NE1 TRP 7262 CZ2 TRP 7263 CZ3 TRP	187	106. 249 78. 474 15. 298 1. 00 26. 08 B 105. 723 80. 878 15. 789 1. 00 24. 50 B	N C							
ATOM ATOM	7264 CH2 TRP 7265 C TRP		103. 346 81. 332 15. 764 1. 00 26. 71 B 104. 679 81. 751 15. 922 1. 00 25. 13 B 101. 555 74. 941 15. 709 1. 00 26. 00 B	C C C							
ATOM ATOM	7266 0 TRP 7267 N THR	187 188	100. 481 75. 402 15. 339 1. 00 27. 74 B 101. 759 73. 636 15. 839 1. 00 26. 58 B	O N							
ATOM ATOM ATOM	7268 CA THR 7269 CB THR 7270 OG1 THR	188 188 188	100. 708 72. 672 15. 516 1. 00 26. 89 B 101. 304 71. 388 14. 895 1. 00 26. 63 B 102. 291 70. 836 15. 781 1. 00 27. 13 B	C C							
ATOM ATOM	7271 CG2 THR 7272 C THR	188 188	101. 940 71. 697 13. 552 1. 00 25. 34 B 99. 817 72. 259 16. 687 1. 00 27. 17 B	0 C C							
ATOM ATOM ATOM	7273 O THR 7274 N GLY 7275 CA GLY	188 189 189	98. 916 71. 437 16. 512 1. 00 26. 92 B 100. 064 72. 827 17. 866 1. 00 26. 58 B	0 N							
ATOM ATOM	7276 C GLY 7277 O GLY	189 189	99. 278 72. 491 19. 045 1. 00 27. 32 B 97. 783 72. 645 18. 847 1. 00 28. 44 B 97. 333 73. 673 18. 345 1. 00 30. 95 B	C C O							
ATOM ATOM ATOM	7278 N LYS 7279 CA LYS 7280 CB LYS	190 190 190	97. 007 71. 636 19. 242 1. 00 27. 83 B 95. 554 71. 686 19. 085 1. 00 27. 15 B	N C							
ATOM ATOM	7281 CG LYS 7282 CD LYS	190 190	95. 187 71. 381 17. 628 1. 00 29. 55 B 93. 695 71. 294 17. 317 1. 00 31. 55 B 93. 498 71. 031 15. 821 1. 00 36. 65 B	C C C							
ATOM ATOM ATOM	7283 CE LYS 7284 NZ LYS 7285 C LYS	190 190	92. 043 70. 731 15. 458 1. 00 39. 17 B 91. 127 71. 870 15. 744 1. 00 41. 50 B	C N							
ATOM ATOM	7286 O LYS 7287 N GLU	190 190 191	94. 815 70. 731 20. 028 1. 00 26. 61 B 94. 738 69. 523 19. 786 1. 00 25. 87 B 94. 262 71. 299 21. 096 1. 00 25. 05 B	C O N							
ATOM ATOM ATOM	7288 CA GLU 7289 CB GLU 7290 CG GLU	191 191	93. 516 70. 558 22. 110 1. 00 25. 10 B 92. 461 71. 475 22. 728 1. 00 26. 71 B	C C							
ATOM ATOM	7290 CG GLU 7291 CD GLU 7292 OE1 GLU	191 191 191	91. 821 70. 933 23. 987 1. 00 29. 36 B 90. 752 71. 859 24. 514 1. 00 34. 15 B 90. 111 71. 522 25. 536 1. 00 36. 46 B	C C O							
ATOM ATOM ATOM	7293 OE2 GLU 7294 C GLU 7295 O GLU	191 191	90. 551 72. 932 23. 899 1. 00 35. 96 B 92. 849 69. 263 21. 631 1. 00 23. 31 B	0 C							
ATOM ATOM	7296 N ASP 7297 CA ASP	191 192 192	92. 031 69. 280 20. 713 1. 00 20. 17 B 93. 208 68. 157 22. 287 1. 00 23. 70 B 92. 707 66. 811 21. 996 1. 00 24. 98 B	O N							
ATOM ATOM ATOM	7298 CB ASP 7299 CG ASP 7300 OD1 ASP	192 192	91. 183 66. 733 22. 149 1. 00 27. 27 B 90. 700 67. 200 23. 508 1. 00 30. 85 B	C C C							
111 0111	ומא זעט טטני	192	91. 335 66. 855 24. 533 1. 00 32. 45 B	0							

			FIG. 4-150	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7302 C ASP 7303 0 ASP 7304 N ILE 7305 CA ILE 7306 CB ILE 7307 CG2 ILE 7308 CG1 ILE 7309 CD1 ILE 7310 C ILE	192 192 193 193 193 193 193 193	89. 671       67. 908       23. 548       1. 00       32. 44       B         93. 072       66. 329       20. 602       1. 00       25. 95       B         92. 431       65. 426       20. 065       1. 00       27. 81       B         94. 091       66. 926       20. 000       1. 00       25. 46       B         94. 485       66. 512       18. 665       1. 00       25. 50       B         93. 970       67. 502       17. 595       1. 00       26. 97       B         94. 426       67. 057       16. 212       1. 00       26. 11       B         92. 441       67. 552       17. 621       1. 00       27. 90       B         91. 784       66. 246       17. 210       1. 00       29. 23       B         95. 994       66. 390       18. 546       1. 00       25. 04       B	C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7311 O ILE 7312 N ILE 7313 CA ILE 7314 CB ILE 7315 CG2 ILE 7316 CG1 ILE 7317 CD1 ILE 7318 C ILE 7319 O ILE 7320 N TYR	193 194 194 194 194 194 194 194	96. 519       65. 297       18. 334       1. 00 26. 34       B         96. 691       67. 510       18. 682       1. 00 22. 43       B         98. 139       67. 505       18. 589       1. 00 21. 47       B         98. 618       68. 429       17. 456       1. 00 21. 58       B         100. 146       68. 414       17. 377       1. 00 18. 60       B         97. 972       68. 001       16. 133       1. 00 19. 45       B         98. 331       66. 613       15. 678       1. 00 15. 81       B         98. 779       67. 968       19. 895       1. 00 21. 61       B         98. 544       69. 095       20. 337       1. 00 22. 13       B	O N C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7321 CA TYR 7322 CB TYR 7323 CG TYR 7324 CD1 TYR 7325 CE1 TYR 7326 CD2 TYR 7327 CE2 TYR	195 195 195 195 195 195 195	100. 272       67. 429       21. 750       1. 00 18. 17       B         100. 079       66. 331       22. 798       1. 00 20. 45       B         98. 647       65. 941       23. 094       1. 00 21. 37       B         97. 873       65. 269       22. 146       1. 00 20. 38       B         96. 584       64. 846       22. 445       1. 00 20. 38       B         98. 087       66. 187       24. 349       1. 00 21. 55       B	N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7328 CZ TYR 7329 OH TYR 7330 C TYR 7331 O TYR 7332 N ASN 7333 CA ASN 7334 CB ASN	195 195 195 195 196 196	96. 052       65. 094       23. 705       1. 00       20. 48       B         94. 785       64. 650       24. 020       1. 00       19. 77       B         101. 771       67. 579       21. 503       1. 00       18. 27       B         102. 412       66. 677       20. 967       1. 00       19. 50       B         102. 334       68. 710       21. 897       1. 00       17. 52       B         103. 762       68. 941       21. 725       1. 00       17. 79       B	C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7335 CG ASN 7336 OD1 ASN 7337 ND2 ASN 7338 C ASN 7339 O ASN 7340 N GLY 7341 CA GLY	196 196 196 196 196 197	103. 366       70. 106       19. 489       1. 00 17. 04       B         103. 769       69. 311       18. 632       1. 00 16. 41       B         102. 362       70. 943       19. 267       1. 00 17. 01       B         104. 380       69. 160       23. 104       1. 00 18. 89       B         103. 976       70. 066       23. 828       1. 00 21. 80       B         105. 355       68. 344       23. 479       1. 00 18. 21       B	C C O N C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7342 C GLY 7343 0 GLY 7344 N ILE 7345 CA ILE 7346 CB ILE 7347 CG2 ILE 7348 CG1 ILE 7349 CD1 ILE	197 197 198 198 198 198 198	105. 976       68. 533       24. 778       1. 00 18. 42       B         105. 185       67. 948       25. 941       1. 00 18. 43       B         105. 660       67. 954       27. 088       1. 00 17. 86       B         103. 976       67. 469       25. 654       1. 00 15. 16       B         103. 129       66. 842       26. 667       1. 00 14. 58       B         101. 956       67. 740       27. 160       1. 00 12. 66       B         102. 477       68. 784       28. 109       1. 00 10. 73       B         101. 189       68. 334       25. 970       1. 00 14. 13       B         99. 936       69. 129       26. 368       1. 00 13. 46       B	C C O N C C C C

										(Continued)
					FΙ	G. 4 -	151			(Continued)
	-050								_	_
ATOM	7350	C	ILE	198	102. 523		26. 101	1.00 14.46	В	C
ATOM	7351	0	ILE	198	102.354		24. 895	1.00 16.78	В	0
ATOM ATOM	7352 7353	N CA	THR THR	199 199	102. 182		26. 990	1.00 15.77	В	N
ATOM	7354	CB	THR	199	101.600 101.982		26. 608 27. 630	1.00 15.94 1.00 15.69	В	C
ATOM	7355		THR	199	101. 683		28. 937	1.00 15.09	B B	C 0
ATOM	7356		THR	199	101. 003		27. 534	1.00 12.99	В	C
ATOM	7357	C	THR	199	100. 415		26. 522	1.00 15.34	В	C
ATOM	7358	ŏ	THR	199	99. 452		27. 133	1.00 16.77	В	Ö
ATOM	7359	Ň	ASP	200	99. 510		25. 745	1.00 16.29	В	N
ATOM	7360	CA	ASP	200	98. 058		25.619	1.00 16.42	В	Ċ
ATOM	7361	CB	ASP	200	97. 654		24. 279	1.00 17.56	B	č
ATOM	7362	CG	ASP	200	97.960		24. 207	1.00 19.40	B	Č
ATOM	7363	OD1	ASP	200	98. 894		24.892	1.00 20.07	B	0
<b>ATOM</b>	7364	OD2	ASP	200	97. 267	59.624	23.438	1.00 19.79	В	0
ATOM	7365	C	ASP	200	97.657	61.578	26.806	1.00 15.56	В	Č
ATOM	7366	0	ASP	200	98. 502	61.278	27.648	1.00 16.67	В	0
ATOM	7367	N	TRP	201	96. 404	61.151	26.889	1.00 14.09	В	N
ATOM	7368	CA	TRP	201	96.003	60. 368	28.049	1.00 13.08	В	C
ATOM	7369	CB	TRP	201	94. 503	60. 106	28. 037	1.00 13.25	В	C
ATOM	7370	CG	TRP	201	94. 023	59. 554	29. 348	1.00 12.63	В	C
ATOM	7371		TRP	201	94. 135	58. 198	29. 801	1.00 10.35	В	C
ATOM	7372		TRP	201	93.610	58. 150	31.110	1.00 11.08	В	C
ATOM ATOM	7373 7374		TRP	201	94. 634	57. 020	29. 228	1.00 8.52	В	C
ATOM	7375		TRP TRP	201 201	93. 449	60. 253	30. 370	1.00 12.43	В	C
ATOM	7376		TRP	201	93. 198 93. 567	59.416 56.967	31. 434 31. 858	1.00 12.21	В	N
ATOM	7377		TRP	201	94. 596	55.847	29. 968	1.00 11.85 1.00 8.91	B B	C
ATOM	7378	CH2		201	94. 065	55. 829	31. 271	1.00 10.19	В	C C
ATOM	7379	C	TRP	201	96. 719	59.040	28. 264	1.00 10.13	В	C
ATOM	7380	Ŏ	TRP	201	97. 197	58.766	29. 366	1.00 14.00	В	0
ATOM	7381	N	VAL	202	96. 795	58. 213	27. 224	1. 00 14. 84	В	N
ATOM	7382	CA	VAL	202	97. 413	56.902	27. 369	1.00 13.74	B	Č
ATOM	7383	CB	VAL	202	97. 028	55.966	26.190	1.00 11.30	B	č
ATOM	7384	CG1	VAL	202	97.960	56.155	25.010	1.00 8.57	B	
ATOM	7385	CG2		202	97.028	54. 541	26.667	1.00 8.82	В	C C
ATOM	7386	C	VAL	202	98.929	56.920	27.556	1.00 15.45	ь В	C
ATOM	7387	0	VAL	202	99.471	56. 095	28. 292	1.00 16.05	В	0
ATOM	7388	N	TYR	203	99.616	57.857	26. 906	1.00 15.45	В	N
ATOM	7389	CA	TYR	203	101.060	57. 941	27.053	1.00 13.39	В	С
ATOM	7390	CB	TYR	203	101.656	58. 918	26. 035	1.00 12.37	В	C
ATOM	7391	CC	TYR	203	102. 248	58. 238	24. 823	1.00 8.90	В	C
ATOM ATOM	7392 7393	CD1		203	101.461	57. 938	23. 709	1.00 8.82	В	C
ATOM	7394	CE1 CD2		203 203	101.989	57. 260	22.619	1.00 7.48	В	C
ATOM	7395	CE2	TYR	203 203	103. 587 104. 128	57. 844 57. 167	24. 812 23. 727	1.00 5.53	В	C
ATOM	7396	CZ	TYR	203	104. 128	56.874	22. 634	1.00 6.51 1.00 8.49	B B	C
ATOM	7397	OH	TYR	203	103. 323	56. 175	21.572	1.00 8.49	В	C 0
ATOM	7398	Č	TYR	203	101.438	58. 371	28. 471	1.00 13.68	В	Č
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					F I	G. 4	- 152	2		
ATOM ATOM	7399 7400		TYR GLU		102. 369 100. 706				B B	0 N
ATOM	7401	CA	GLU	204	100.963				В	Č
ATOM	7402				99. 97			1.00 16.67	В	Č
ATOM	7403				100.174				В	C
ATOM ATOM	7404 7405	CD			98. 950				В	C
ATOM	7405	OE OE	1 GLU 2 GLU		98. 197				В	0
ATOM	7407	C	GLU		98. 753 100. 831				В	0
ATOM	7408	ŏ	GLU	204	100. 681				B B	C 0
ATOM	7409	Ň	GLU	205	99. 745		31. 353		В	N N
ATOM	7410	CA	GLU	205	99. 442			1.00 19.55	В	C
ATOM	7411	CB	GLU	205	97. 925	56. 727	32. 344		В	č
ATOM	7412	CG	GLU	205	97. 453	55. 436	32. 995		B	C C C
ATOM	7413	CD	GLU	205	97.414			1.00 26.68	В	
ATOM	7414		GLU	205	97. 038				В	0
ATOM ATOM	7415 7416	C	GLU GLU	205	97. 744			1.00 26.12	В	0
ATOM	7417	0	GLU	205 205	100. 132 100. 525		32. 131	1.00 19.27	В	C
ATOM	7418	N	GLU	206	100. 323	54. 957 55. 124	33. 107 30. 893	1.00 19.31	В	0
ATOM	7419	CA	GLU	206	100. 231	53. 808	30. 660	1.00 18.93 1.00 18.63	В	N C
<b>ATOM</b>	7420	CB	GLU	206	99. 989	53.016	29. 705	1.00 18.05	B B	C C
ATOM	7421	CG	GLU	206	98. 535	52. 921	30. 139	1.00 20.39	В	C
ATOM	7422	CD	GLU	206	98. 359	52.143	31.422	1.00 20.74	B	č
ATOM	7423		GLU	206	97. 205	51.905	31.821	1.00 21.45	B	Ö
MOTA	7424		GLU	206	99.375	51.768	32.037	1.00 22.90	В	0
ATOM	7425	C	GLU	206	102. 293	53.766	30.136	1.00 19.32	В	C
ATOM ATOM	7426 7427	O N	GLU VAL	206	102.976	52. 761	30. 292	1.00 20.01	В	0
ATOM	7428	CA	VAL	207 207	102. 744	54.844	29.509	1.00 20.90	В	N
ATOM	7429	CB	VAL	207	104. 092 104. 101	54. 855 55. 347	28. 968 27. 509	1.00 20.95	В	C C C
ATOM	7430	CG1		207	105. 486	55. 151	26.918	1.00 21.52 1.00 22.17	B B	C
ATOM	7431		VAL	207	103. 048	54. 592	26. 684	1.00 22.17	В	C
ATOM	7432	C	VAL	207	105.080	55. 691	29. 775	1.00 21.67	В	Č
ATOM	7433	0	VAL	207	106.052	55.160	30.301	1.00 25.32	B	ŏ
ATOM	7434	N	PHE	208	104.833	56.989	29.888	1.00 21.55	B	N
ATOM	7435	CA	PHE	208	105. 743	57.870	30.611	1.00 21.33	<b>B</b> ·	C
ATOM	7436	CB	PHE	208	105.877	59. 201	29.863	1.00 21.28	В	C
ATOM ATOM	7437 7438	CG	PHE PHE	208	106.571	59.083	28. 536	1.00 21.92	В	C
ATOM	7439		PHE	208 208	107. 890 105. 893	58.649	28. 464	1.00 20.63	В	C
ATOM	7440		PHE	208	103. 593	59. 373 58. 499	27. 353	1.00 22.58	В	C
ATOM	7441		PHE	208	106. 523	59. 225	27. 230 26. 109	1.00 22.52 1.00 22.24	B B	C C
ATOM	7442	CZ	PHE	208	107. 837	58. 787	26. 048	1.00 22.24	В	C
ATOM	7443	C	PHE	208	105. 444	58. 168	32. 082	1.00 21.89	В	C
ATOM	7444	0	PHE	208	106. 298	58.727	32.768	1.00 23.07	B	Ŏ
ATOM	7445	N	SER	209	104. 261	57.811	32.577	1.00 20.48	В	N
ATOM	7446	CA	SER	209	103. 922	58. 094	33. 976	1.00 19.86	В	С
ATOM	7447	CB	SER	209	104.689	57.165	34. 905	1.00 18.09	В	C

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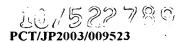
					FIG	G. 4-	153			(Continued)
ATOM	7448	OG	SER	209	104. 383	55.820	34. 601	1.00 21.42	В	0
ATOM	7449	С	SER		104. 285	59. 543	34. 286	1.00 20.55	В	C
ATOM	7450	0	SER		104. 780	59. 877	35.367	1.00 19.53	В	0
ATOM	7451	N	ALA		104.031	60. 394	33. 302	1.00 20.69	В	N
ATOM	7452	CA	ALA		104. 319	61.809	33. 393	1.00 20.47	В	Ċ
ATOM	7453	CB	ALA		105. 809	62.044	33. 228	1.00 20.63	В	C
ATOM	7454	C	ALA		103. 545	62. 492	32. 275	1.00 20.53	В	C
ATOM	7455	0	ALA		103.042	61.835	31.367	1.00 19.81	В	0
ATOM	7456	N	TYR		103. 461	63. 813	32. 354	1.00 21.78	В	N
ATOM	7457	CA	TYR		102. 733	64. 634	31. 390	1.00 20.95	В	C
ATOM	7458	CB	TYR		101.944	65. 681	32.175	1.00 18.35	В	C
ATOM	7459	CG	TYR		100. 984	66.566	31.411	1.00 15.38	В	C
ATOM	7460		TYR		100. 257	66. 086 66. 879	30. 324	1.00 14.13	В	C
ATOM ATOM	7461 7462		TYR TYR		99. 310 100. 738	67. 863	29.694	1.00 12.47	В	C
ATOM	7463		TYR		99. 799	68. 657	31.846 31.231	1.00 11.95 1.00 12.21	B B	C C
ATOM	7464	CZ	TYR		99. 087	68. 165	30. 156	1.00 12.21	В	C
ATOM	7465	OH	TYR		98. 158	68. 977	29. 550	1.00 13.08	В	0
ATOM	7466	C	TYR	211	103. 781	65. 283	30.508	1.00 12.13	В	Č
ATOM	7467	ŏ	TYR	211	103. 512	65. 742	29.406	1.00 23.55	В	0
ATOM	7468	N	SER	212	105.000	65. 294	31.017	1.00 23.17	В.	N
ATOM	7469	CA	SER	212	106. 112	65. 877	30.310	1.00 22.03	В	Č
ATOM	7470	CB	SER	212	107. 286	66. 055	31.265	1.00 22.38	В	č
ATOM	7471	0G	SER	212	108. 441	66. 477	30.567	1.00 24.83	В	ŏ
ATOM	7472	Č	SER	212	106. 547	65.017	29. 141	1.00 22.20	В	Č
ATOM	7473	0	SER	212	106.651	63.802	29. 256	1.00 22.93	В	ŏ
ATOM	7474	N	ALA	213	106.791	65.668	28.013	1.00 22.14	B	Ň
ATOM	7475	CA	ALA	213	107. 267	65.011	26.812	1.00 19.72	B	Ċ
ATOM	7476	CB	ALA	213	106.157	64: 882	25.803	1.00 19.85	B	Č
ATOM	7477	C	ALA	213	108.360	65.942	26.301	1.00 21.17	В	C
ATOM	7478	0	ALA	213	108. 443	66.254	25.109	1.00 20.14	В	0
ATOM	7479	N	LEU	214	109. 175	66.409	27. 243	1.00 21.21	В	N
ATOM	7480	CA		214	110. 298			1.00 22.06	В	С
ATOM	7481		LEU	214	110.049	68.697	27. 534	1.00 21.02	В	С
ATOM	7482		LEU	214	108. 958	69.546	26.878	1.00 20.19	В	C
ATOM	7483	CD1		214	108.840	70.872	27.603	1.00 21.72	В	С
ATOM	7484	CD2		214	109. 292	69.779	25. 426	1.00 22.01	В	C
ATOM	7485	C	LEU	214	111.528	66.688	27.615	1.00 22.30	В	C
ATOM	7486	0	LEU	214	111.442	66. 131	28. 703	1.00 25.61	В	0
ATOM	7487	N	TRP	215	112.674	66. 795	26. 957	1.00 21.71	В	· N
ATOM	7488	CA	TRP	215	113. 904	66. 237	27. 497	1.00 19.34	В	C
ATOM ATOM	7489 7490	CB CG	TRP	215	114. 112	64. 833	26. 942	1.00 18.71	В	C
ATOM	7490	CD2	TRP	215 215	113. 018 111. 910	63.863	27. 294	1.00 18.43	В	C
ATOM	7491	CE2		215	111. 910	63. 481 62. 536	26. 468 27. 194	1.00 16.56 1.00 14.85	B B	C C
ATOM	7493	CE3		215	111. 137	63.845	25. 186	1.00 14.85	В	C
ATOM	7494	CD1		215	111. 402	63. 155	28. 456	1.00 17.01	В	C
ATOM	7495	NE1		215	111. 781	62.356	28. 400	1.00 13.04	В	N N
ATOM	7496	CZ2		215	109.996	61.949	26. 682	1.00 14.75	B	C

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					FΙ	G. 4	- 154	1		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7512 7513 7514 7515 7516 7517 7518 7519	CH2 C O N CA CB CG CD2 CE2 CE3 CD1 NE1 CZ2 CC3 CH2 C O N CA CB OG C	TRP TRP SER SER SER SER SER SER SER	215 215 215 216 216 216 216 216 216 216 216 216 216	110. 326 109. 599 115. 116 115. 625 116. 727 116. 958 116. 097 115. 036 116. 959 114. 945 114. 351 114. 815 114. 815 115. 673 117. 982 118. 083 118. 941 120. 222 120. 954 121. 212 120. 976	63. 257 62. 320 67. 096 67. 096 67. 897 68. 743 69. 705 72. 999 72. 916 72. 598 70. 974 72. 204 74. 209 73. 887 74. 674 67. 896 68. 398 67. 723 68. 223 69. 612 68. 145	7 24.675 25.425 27.149 4 26.028 7 28.108 8 27.880 6 29.048 8 29.156 9 28.437 28.896 27.452 29.994 29.844 28.401 26.958 27.435 27.747 28.334 26.975 26.819 25.575 25.676 28.080	1.00 15.48 1.00 15.57 1.00 20.78 1.00 20.20 1.00 20.97 1.00 21.49 1.00 22.15 1.00 24.63 1.00 25.56 1.00 26.21 1.00 25.92 1.00 26.55 1.00 24.93 1.00 25.52 1.00 24.93 1.00 25.52 1.00 24.95 1.00 23.03 1.00 25.91 1.00 26.96 1.00 28.77 1.00 27.00	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7520 7521 7522 7523 7524 7525 7526 7527 7528 7529 7530 7531 7532 7533 7534 7535 7536 7536 7537 7538 7537 7538 7539 7540 7541	ON CCD CCA CCB CCC CC CCC CCC CCC CCC CCC CCC	SER PRO PRO PRO PRO PRO PRO PRO ASN ASN ASN ASN ASN ASN GLY GLY THR THR	217 218 218 218 218 218 218 219 219 219 219 219 219 219 220 220 220 221 221	120. 976 120. 694 121. 942 122. 469 122. 712 123. 961 123. 385 123. 005 122. 487 123. 818 124. 129 125. 485 126. 626 123. 029 123. 212 121. 888 120. 765 120. 823 120. 097 121. 669 121. 775	68. 145 69. 198 67. 336 66. 127 67. 646 66. 801 65. 555 69. 116 69. 661 69. 770 71. 176 71. 562 71. 640 71. 725 71. 632 72. 133 73. 351 71. 575 72. 391 73. 030 73. 986 72. 512 73. 073	28. 080 28. 656 28. 523 27. 867 29. 727 29. 547 28. 937 30. 010 30. 985 29. 184 29. 435 28. 816 27. 308 26. 706 26. 690 28. 958 28. 943 28. 137 26. 765 26. 765 26. 500 25. 884 24. 547	1. 00 27. 00 1. 00 26. 90 1. 00 26. 67 1. 00 26. 67 1. 00 26. 69 1. 00 27. 32 1. 00 26. 93 1. 00 27. 70 1. 00 30. 37 1. 00 27. 72 1. 00 26. 82 1. 00 26. 61 1. 00 27. 23 1. 00 25. 21 1. 00 30. 87 1. 00 27. 38 1. 00 27. 38 1. 00 27. 38 1. 00 26. 91 1. 00 26. 91 1. 00 27. 55 1. 00 27. 00 1. 00 26. 99		
ATOM ATOM ATOM ATOM	7543 0	G1 ' G2 '	THR THR THR THR	221 221 221 221	123. 052 124. 213 123. 068 120. 559	72. 584 73. 084 73. 089 72. 685	23. 808 24. 481 22. 367 23. 730	1.00 27.74 1.00 29.49 1.00 26.25 1.00 26.42	B B B	C O C C

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					FIG	G. 4-	155			(Continued)
ATOM	7546	0	THR	221	119.862	73. 551	23. 201	1. 00 28. 29	D	0
ATOM	7547	N	PHE	222	120. 305	71.386	23. 619	1.00 25.34	B B	O N
ATOM	7548	CA	PHE	222	119.158	70. 921	22. 850	1.00 25.13	В	C
ATOM	7549	CB	PHE	222	119.480	69. 645	22.069	1. 00 25. 65	В	Č
ATOM	7550	CG	PHE	222	120. 722	69. 723	21. 246	1.00 26.36	В	č
ATOM	7551		PHE	222	121.955	69.384	21. 797	1.00 26.35	В	č
ATOM	7552		PHE	222	120.661	70.111	19. 912	1.00 25.81	В	č
ATOM	7553		PHE	222	123. 115	69.425	21.031	1.00 26.12	В	č
ATOM	7554		PHE	222	121.815	70. 158	19. 132	1.00 28.19	B	č
ATOM	7555	CZ	PHE	222	123.046	69.814	19.693	1.00 28.46	B	č
ATOM	7556	C	PHE	222	117.949	70.618	23. 723	1.00 24.55	B	Č
ATOM	7557	0	PHE	222	118.066	70. 282	24.901	1.00 24.38	В	0
ATOM	7558	N	LEU	223	116.780	70.746	23.119	1.00 24.19	В	N
ATOM	7559	CA	LEU	223	115.540	70.442	23.789	1.00 22.85	В	C
ATOM	7560	CB	LEU	223	114.618	71.667	23.878	1.00 21.81	В	С
ATOM	7561	CG	LEU	223	113. 248	71.340	24.503	1.00 20.49	В	C
ATOM	7562		LEU	223	113.469	70.684	25.860	1.00 21.10	В	С
ATOM	7563		LEU	223	112.389	72.587	24.644	1.00 18.49	В	C
ATOM	7564	C	LEU	223	114.885	69.380	22.934	1.00 23.23	В	C
ATOM	7565	0	LEU	223	114.462	69.650	21.808	1.00 22.62	В	0
ATOM	7566	N	ALA	224	114. 834	68. 162	23. 459	1.00 23.47	В	N
ATOM	7567	CA	ALA	224	114. 201	67.062	22. 753	1.00 23.08	В	С
ATOM	7568	CB	ALA	224	114. 935	65.776	23. 038	1.00 24.27	В	C
ATOM	7569	C	ALA	224	112. 761	66.968	23. 248	1.00 23.38	В	C
ATOM	7570	0 N	ALA	224	112.498	67.111	24. 444	1.00 23.37	В	0
ATOM	7571 7572	N	TYR	225	111.825	66.755	22. 328	1.00 23.10	В	N
ATOM ATOM	7572 7573	CA CB	TYR TYR	225	110.423	66.635	22. 703	1.00 21.31	В	C
ATOM	7574	CG	TYR	225 225	109.733	67.997	22. 701	1.00 18.23	В	C
ATOM	7575	CD1	TYR	225 225	109. 648 110. 680	68.624	21.332	1.00 18.56	В	C
ATOM	7576		TYR	225	110.607	69.443	20.849	1.00 16.52	В	C C
ATOM	7577	CD2		225	108. 543	70. 017 68. 399	19. 589 20. 509	1.00 13.07	В	C
ATOM	7578	CE2		225	108. 343	68. 970	20. 509 19. 244	1.00 16.18	B B	C C
ATOM	7579	CZ	TYR	225	109. 502	69.777	18. 796	1.00 14.89 1.00 12.68	_	
ATOM	7580	OH	TYR	225	109. 431	70.342	17. 553	1.00 12.08	B B	C
ATOM	7581	C	TYR	225	109. 705	65.712	21. 737	1.00 14.00	В	0 C
ATOM	7582	ŏ	TYR	225	110. 143	65. 523	20. 607	1.00 21.33	В	0
ATOM	7583	Ň	ALA	226	108. 596	65. 141	22. 195	1.00 20.96	В	N N
ATOM	7584	CA	ALA	226	107.811	64. 235	21. 381	1.00 19.66	В	C
ATOM	7585	CB	ALA	226	107. 485	62.980	22. 173	1.00 19.19	В	Č
ATOM	7586	C	ALA	226	106. 528	64. 921	20. 962	1.00 19.73	В	Č
ATOM	7587	0	ALA	226	106. 107	65. 908	21.576	1.00 21.22	В	ŏ
ATOM	7588	N	GLN	227	105. 912	64. 410	19.909	1.00 16.70	В	Ň
ATOM	7589	CA	GLN	227	104.659	64.968	19.457	1.00 17.01	B	Č
ATOM	7590	CB	GLN	227	104.823	65.709	18. 139	1.00 17.47	B	č
ATOM	7591	CG	GLN	227	103. 512	66.300	17.670	1.00 18.65	B	Č
ATOM	7592	CD	GLN	227	103. 554	66.788	16.249	1.00 18.45	В	Ċ
ATOM	7593	0E1		227	103.724	66.007	15.320	1.00 18.91	В	0
ATOM	7594	NE2	GLN	227	103. 394	68.090	16.070	1.00 19.57	В	N



					E I C		1 5 6			(Continued)
					FIG	τ. 4 ·	156			
ATOM	7595	C	GLN	227	103.651	63.841	19. 274	1.00 17.21	В	C
ATOM	7596	0	GLN	227	103. 931	62.850	18. 594	1.00 17.76 1.00 16.03	В	0
ATOM ATOM	7597 7598	N CA	PHE PHE	228 228	102. 483 101. 447	63. 990 62. 980	19. 888 19. 768	1.00 10.03	В	N C
ATOM	7599	CB	PHE	228	101. 447	62. 524	21. 158	1.00 17.04	B B	C C
ATOM	7600	CG	PHE	228	100. 363	62. 105	22. 065	1.00 13.03	В	Č
ATOM	7601		PHE	228	102. 659	63. 003	22. 982	1.00 12.33	В	Č
ATOM	7602		PHE	228	102.653	60.826	21.978	1.00 12.01	В	č
ATOM	7603		PHE	228	103. 732	62.636	23. 796	1.00 9.77	B	č
ATOM	7604		PHE	228	103. 725	60.450	22. 786	1.00 11.27	B	Č
ATOM	7605	CZ	PHE	228	104. 267	61.360	23.698	1.00 9.50	В	C
ATOM	7606	C	PHE	228	100. 263	63.523	18.955	1.00 18.96	В	C
ATOM	7607	0	PHE	228	99. 894	64.697	19.064	1.00 19.98	В	0
ATOM	7608	N	ASN	229	99.685	62.657	18. 133	1.00 20.11	В	N
ATOM	7609	CA	ASN	229	98. 548	63.002	17. 285	1.00 20.74	В	C
ATOM	7610	CB	ASN	229	98. 965	62. 867	15.819	1.00 22.98	В	C
ATOM	7611	CG	ASN	229	97. 980	63. 488	14.867	1.00 27.56	В	C
ATOM	7612		ASN	229	96. 795	63.610	15. 174	1.00 31.63	В	0
ATOM ATOM	7613 7614	C	ASN ASN	229 229	98. 467	63.871	13.692	1.00 30.76	В	N C
ATOM	7615	0	ASN	229	97. 435 97. 550	61. 995 60. 816	17. 609 17. 283	1.00 21.10	В	C
ATOM	7616	N	ASP	230	96. 369	62. 444	18. 260	1.00 20.02 1.00 22.16	B B	0 N
ATOM	7617	CA	ASP	230	95. 277	61.534	18. 608	1.00 22.10	В	C
ATOM	7618	CB	ASP	230	94. 877	61.683	20.079	1.00 23.86	В	Č
ATOM	7619	CG	ASP	230	95. 999	61.332	21.027	1.00 25.25	B	č
ATOM	7620		ASP	230	95. 701	60.914	22. 159	1.00 27.89	B	Ö
ATOM	7621	0D2	ASP	230		61.485	20.656	1.00 27.78	B	0 .
ATOM	7622	С	ASP	230	94.056	61.776	17.740	1.00 24.83	В	C
ATOM	7623	0	ASP	230	92.927	61.496	18. 148	1.00 24.00	В	0
ATOM	7624	N	THR	231	94. 297	62.284	16. 536	1.00 25.37	В	N
ATOM	7625	CA	THR	231	93. 229	62. 582	15. 593	1.00 26.24	В	C
ATOM	7626	CB	THR	231		62. 868	14. 193	1.00 25.71	В	C
ATOM	7627	OG1	THR	231	94. 439	64. 151	14. 194	1.00 26.78	В	0
ATOM ATOM	7628 7629	CGZ	THR THR	231 231		62. 851	13. 150	1.00 23.72	В	C
ATOM	7630	Ö	THR	231		61. 510 61. 815	15. 467 15. 604	1.00 27.04 1.00 29.05	В	C
ATOM	7631	N	GLU	232		60. 265	15. 211	1.00 29.00	B B	O N
ATOM	7632	CA	GLU	232		59. 183	15. 038	1.00 26.30	В	C
ATOM	7633	CB	GLU	232		58. 286	13. 877	1.00 29.71	В	C
ATOM	7634	CG	GLU	232		59.036	12. 563	1.00 36.71	B	č
ATOM	7635	CD	GLU	232		58. 253	11.519	1.00 39.94	B	č
ATOM	7636		GLU	232		57. 273		1.00 41.61	В	Ö
ATOM	7637		GLU	232		58. 623	11.286	1.00 39.28	В	0
ATOM	7638	C	GLU	232	91.320	58. 328	16. 282	1.00 23.78	В	С
ATOM	7639	0	GLU	232		57. 280	16. 208	1.00 23.18	В	0
ATOM	7640	N	VAL	233		58. 763		1.00 21.91	В	N
ATOM	7641	CA	VAL	233		58. 010		1.00 20.18	В	C
ATOM ATOM	7642 7643	CB	VAL VAL	233 233		58. 375		1.00 20.26	В	C
VIOM	1040	CGI	IVL	400	92. 352	57. 627	21.016	1.00 18.23	В	С

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				FIG. 4-157	(Continued)
	<b>-</b> 211				
ATOM ATOM	7644 7645		233 233	94. 050 58. 032 19. 223 1. 00 18. 80 B 90. 218 58. 339 19. 175 1. 00 18. 04 B	
ATOM	7646	0 VAL	233	90. 218 58. 339 19. 175 1. 00 18. 04 B 89. 886 59. 507 19. 378 1. 00 19. 49 B	
ATOM	7647	N PRO	234	89. 383 57. 315 19. 394 1. 00 16. 04 B	
ATOM	7648	CD PRO	234	89. 633 55. 876 19. 231 1. 00 14. 37 B	
ATOM	7649	CA PRO	234	88. 025 57. 544 19. 896 1. 00 15. 33 B	
ATOM	7650	CB PRO	234	87. 461 56. 133 20. 030 1. 00 13. 91 B	
ATOM	7651	CG PRO	234	88. 247 55. 363 19. 013 1. 00 12. 89 B	Ċ
ATOM	7652	C PRO	234	88. 048 58. 275 21. 227 1. 00 14. 45 B	С
ATOM	7653	O PRO	234	89. 043 58. 242 21. 950 1. 00 13. 13 B	0
ATOM	7654	N LEU	235	86. 941 58. 927 21. 547 1. 00 14. 92 B	N
ATOM ATOM	7655	CA LEU	235	86. 831 59. 676 22. 791 1. 00 13. 91 B	C
ATOM	7656 7657	CB LEU CG LEU	$\begin{array}{c} 235 \\ 235 \end{array}$	86. 131 61. 005 22. 536 1. 00 14. 93 B 86. 627 61. 937 21. 434 1. 00 16. 83 B	C
ATOM	7658	CD1 LEU	235		C
ATOM	7659	CD2 LEU	235	85. 581 63. 030 21. 198 1. 00 17. 90 B 87. 963 62. 534 21. 833 1. 00 14. 85 B	C
ATOM	7660	C LEU	235	85. 998 58. 911 23. 803 1. 00 12. 70 B	C
ATOM	7661	0 LEU	235	84. 941 58. 385 23. 456 1. 00 13. 27 B	Õ
ATOM	7662	N ILE	236	86. 468 58. 801 25. 039 1. 00 10. 71 B	Ň
ATOM	7663	CA ILE	236	85. 618 58. 165 26. 037 1. 00 10. 96 B	Ĉ
ATOM	7664	CB ILE	236	86. 385 57. 630 27. 283 1. 00 9. 70 B	Č
ATOM	7665	CG2 ILE	236	87. 316 58. 692 27. 859 1. 00 10. 05 B	С
ATOM	7666	CG1 ILE	236	85. 386 57. 246 28. 371 1. 00 7. 51 B	C
ATOM ATOM	7667 7668	CD1 ILE C ILE	$\frac{236}{336}$	84. 465 56. 100 28. 002 1. 00 9. 77 B	C
ATOM	7669	C ILE O ILE	236 236	84. 774 59. 369 26. 456 1. 00 12. 91 B 85. 277 60. 500 26. 486 1. 00 13. 64 B	C
ATOM	7670	N GLU	237	00 100 00 00	0
ATOM	7671	CA GLU	237	83. 497 59. 156 26. 741 1. 00 13. 69 B 82. 651 60. 267 27. 150 1. 00 14. 30 B	N
ATOM	7672	CB GLU	237	81. 657 60. 643 26. 041 1. 00 15. 93 B	C C .
ATOM	7673	CG GLU	237	82. 307 60. 993 24. 708 1. 00 20. 06 B	C
ATOM	7674	CD GLU	237	81. 311 61. 541 23. 682 1. 00 24. 67 B	č
ATOM	7675	OE1 GLU	237	80. 133 61. 125 23. 713 1. 00 27. 11 B	ŏ
ATOM	7676	OE2 GLU	237	81. 706 62. 377 22. 832 1. 00 25. 71 B	Ö
ATOM	7677	C GLU	237	81. 902 59. 898 28. 407 1. 00 12. 26 B	C
ATOM ATOM	7678 7679	O GLU	237	81. 473 58. 759 28. 569 1. 00 12. 02 B	0
ATOM	7680	N TYR CA TYR	238	81. 768 60. 860 29. 310 1. 00 12. 67 B	N
ATOM	7681	CB TYR	238 238	81. 044 60. 630 30. 550 1. 00 13. 08 B 81. 903 59. 816 31. 534 1. 00 11. 88 B	C
ATOM	7682	CG TYR	238	00 004 00 100 01 10	C
ATOM	7683	CD1 TYR	238	00 050 01 015 00 151	C
ATOM	7684	CE1 TYR	238	83. 250 61. 347 33. 026 1. 00 15. 46 B 84. 458 61. 920 33. 430 1. 00 15. 78 B	C C
ATOM	7685	CD2 TYR	238	84. 390 60. 160 31. 291 1. 00 14. 07 B	C
ATOM	7686	CE2 TYR	238	85. 592 60. 727 31. 683 1. 00 14. 24 B	č
ATOM	7687	CZ TYR	238	85. 623 61. 606 32. 751 1. 00 13. 94 B	č
ATOM	7688	OH TYR	238	86. 818 62. 173 33. 129 1. 00 12. 45 B	0
ATOM	7689	C TYR	238	80. 583 61. 944 31. 163 1. 00 13. 53 B	C
ATOM ATOM	7690 7691	O TYR N SER	238	81. 095 63. 008 30. 832 1. 00 14. 88 B	0 .
ATOM	7692	CA SER	239 239	79. 592 61. 865 32. 042 1. 00 14. 64 B	N
UTOM	1004	on Jun	403	79. 040 63. 047 32. 684 1. 00 13. 89 B	С

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					FIC	J. 4	- 158			
ATOM	7693	СВ	SER	220	77 507	£9 709	22 AOE	1 00 12 00	n	0
ATOM	7694			239	77. 597	62. 783			В	C
ATOM	7695	C		239	76. 800	62. 496		1.00 19.37	В	0
ATOM	7696	0	SER SER	239	79. 775	63. 547			В	C
ATOM	7697	N	PHE	239 240	80. 361	62. 775			В	0
ATOM	7698	CA	PHE	240 240	79. 737	64.860			В	N
ATOM	7699	CB	PHE		80. 313	65. 493	35. 276	1.00 15.60	В	C
ATOM	7700	CG		240 240	81.543	66. 325	34. 932	1.00 17.00	В	C
ATOM	7701		PHE	240	82. 422	66. 591	36. 112	1.00 14.96	В	C
ATOM	7702		PHE		83. 325	65. 629	36. 547	1.00 15.66	В	C
ATOM	7703		I PHE	240 240	82. 312	67. 781	36. 822	1.00 14.41	В	C
ATOM	7704		PHE	240	84. 108	65. 846	37. 675	1.00 13.32	В	C
ATOM	7705	CZ	PHE	240 240	83. 087 83. 988	68.009	37. 950	1.00 12.45	В	C
ATOM	7706	C	PHE	240	79. 184	67. 039	38. 379	1.00 11.23	В	C
ATOM	7707	Ö	PHE	240	78. 671	66. 403	35. 758	1.00 15.75	В	C
ATOM	7708	N	TYR	241	78. 785	67. 232	34. 995	1.00 14.05	В	0
ATOM	7709	CA	TYR	241	77. 683	66. 231 67. 002	37.013	1.00 15.13	В	N
ATOM	7710	CB	TYR	241	76. 912	66. 125	37. 567	1.00 14.92	В	C
ATOM	7711	CG	TYR	241	76. 480	64. 848	38. 545	1.00 13.15	В	C
ATOM	7712	CD1		241	75. 393	64. 832	37. 880 37. 007	1.00 12.77	В	C
ATOM	7713		TYR	241	75. 051	63. 678	36. 304	1.00 11.36	В	C
ATOM	7714		TYR	241	77. 215	63. 674	38. 041	1.00 12.47	В	C .
ATOM	7715		TYR	241	76. 883	62. 512	37. 342	1.00 12.85	В	C
ATOM -	7716	CZ	TYR	241	75. 801	62. 523	36. 472	1.00 12.55 1.00 12.41	В	C
ATOM	7717	OH	TYR	241	75. 489	61. 395	35. 748	1.00 12.41	В	C
ATOM	7718	C	TYR	241	78. 100	68. 299	38. 208	1.00 12.90	В	0
ATOM	7719	ŏ	TYR	241	77. 311	69. 239	38. 263	1.00 13.24	B B	C 0
ATOM	7720	Ň	SER	242	79. 337	68. 353	38. 694	1.00 16.92	В	N N
ATOM	7721	CA	SER	242	79. 864	69. 570	39. 305	1.00 16.89	В	C
ATOM	7722	CB	SER	242	79. 816	70. 707	38. 280	1.00 15.48	В	Č
<b>ATOM</b>	7723	0G	SER	242	80. 439	71.870	38. 782	1.00 18.12	В	0
ATOM	7724	C	SER	242	79. 078	69. 963	40. 548	1.00 16.72	В	C
ATOM	7725	0	SER	242	78. 438	69. 121	41.171	1.00 18.07	В	0
ATOM	7726	N	ASP	243	79.136	71. 241	40.912	1.00 17.57	В	N
ATOM	7727	CA	ASP	243	78. 405	71. 728	42.075	1.00 19.72	· B	C
ATOM	7728	CB	ASP	243	78. 846	73. 142	42. 442	1.00 23.43	В	Č
ATOM	7729	CG	ASP	243	80. 275	73. 188	42. 950	1.00 28.70	B	Č -
ATOM	7730	0D1		243	80.646	72.307	43. 765	1.00 29.62	B	Õ
ATOM	7731	0D2	ASP	243	81.021	74.106	42.542	1.00 29.69	В	ŏ
ATOM	7732	C	ASP	243	76.917	71.708	41.772	1.00 20.24	В	č
ATOM	7733	0	ASP	243	76.508	71.777	40.609	1.00 20.38	В	Ŏ
ATOM	7734	N	GLU	244	76.104	71.624	42.818	1.00 19.25	B	N
ATOM	7735	CA	GLU	244	74.668	71.545	42.630	1.00 19.29	B	Ċ
ATOM	7736	CB	GLU	244	73.966	71.376	43.988	1.00 19.46	B	č
ATOM	7737	CG	GLU	244		72.609	44.533	1.00 23.65	B	č
ATOM	7738	CD	GLU	244		72.334	45.847	1.00 26.30	B	Č
ATOM	7739	0E1	GLU	244		71.856	46.797	1.00 28.64	В	0
ATOM	7740	0E2		244		72. 595	45.934	1.00 27.72	В	0
ATOM	7741	С	GLU	244	74. 086	72. 720	41.850	1.00 18.30	В	C

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FIG. 4-159										
ATOM	7742 0 GLI	T 944	50 050 50 045 44 055 4 00 c	_						
ATOM	7743 N SEI		72. 958 72. 647 41. 355 1. 00 19. 81 B 74. 861 73. 785 41. 702 1. 00 15. 52 B							
ATOM	7744 CA SEI	R 245	74. 381 74. 958 40. 986 1. 00 11. 95 B							
ATOM	7745 CB SEI		75. 157 76. 196 41. 425 1. 00 11. 90 B							
ATOM ATOM	7746 OG SEF 7747 C SEF		76. 473 76. 162 40. 915 1. 00 17. 74 B							
ATOM	7747 C SEF 7748 O SEF		74. 459 74. 821 39. 470 1. 00 9. 32 B 73. 883 75. 625 38. 752 1. 00 10. 56 B							
ATOM	7749 N LEU		73. 883 75. 625 38. 752 1. 00 10. 56 B 75. 167 73. 819 38. 968 1. 00 8. 50 B							
ATOM	7750 CA LEU	246	75. 252 73. 647 37. 518 1. 00 8. 56 B							
ATOM	7751 CB LEU		76.481 72.812 37.145 1.00 8.57 B							
ATOM ATOM	7752 CG LEU 7753 CD1 LEU		76. 770 72. 639 35. 644 1. 00 11. 81 B	C						
ATOM	7754 CD2 LEU		77. 074 73. 984 35. 008 1. 00 5. 99 B 77. 949 71. 694 35. 449 1. 00 10. 70 B							
ATOM	7755 C LEU		77. 949 71. 694 35. 449 1. 00 10. 70 B 73. 971 72. 944 37. 070 1. 00 10. 18 B	C C						
ATOM	7756 0 LEU	246	73.772 71.758 37.349 1.00 9.30 B	Õ						
ATOM	7757 N GLN		73. 094 73. 685 36. 393 1. 00 12. 01 B	Ň						
ATOM ATOM	7758 CA GLN 7759 CB GLN		71. 815 73. 144 35. 938 1. 00 12. 00 B	Č						
ATOM	7760 CG GLN	247	70. 995 74. 230 35. 245 1. 00 12. 36 B 69. 584 73. 806 34. 884 1. 00 14. 88 B	C						
ATOM	7761 CD GLN	247	68. 727 74. 978 34. 446 1. 00 16. 57 B	C C						
ATOM	7762 0E1 GLN	247	69. 152 75. 790 33. 627 1. 00 18. 02 B	ŏ						
ATOM ATOM	7763 NE2 GLN 7764 C GLN	247	67. 512 75. 069 34. 986 1. 00 13. 91 B	N						
ATOM	7764 C GLN 7765 O GLN	247 247	71. 974 71. 942 35. 022 1. 00 12. 63 B 71. 358 70. 903 35. 249 1. 00 13. 50 B	C						
ATOM	7766 N TYR	248	71. 358 70. 903 35. 249 1. 00 13. 50 B 72. 793 72. 074 33. 987 1. 00 13. 12 B	O N						
ATOM	7767 CA TYR	248	73. 022 70. 949 33. 089 1. 00 13. 90 B	C						
ATOM ATOM	7768 CB TYR	248	72. 954 71. 379 31. 628 1. 00 11. 81 B	č						
ATOM	7769 CG TYR 7770 CD1 TYR	248 248	71. 562 71. 727 31. 155 1. 00 11. 76 B	C						
ATOM	7771 CE1 TYR	248 248	70. 967 72. 942 31. 498 1. 00 10. 54 B 69. 689 73. 265 31. 055 1. 00 11. 01 B	C						
ATOM	7772 CD2 TYR	248	69. 689 73. 265 31. 055 1. 00 11. 01 B 70. 842 70. 843 30. 360 1. 00 9. 97 B	C C						
ATOM	7773 CE2 TYR	248	69. 562 71. 155 29. 911 1. 00 11. 67 B	Č						
ATOM ATOM	7774 CZ TYR 7775 OH TYR	248	68. 989 72. 366 30. 259 1. 00 11. 89 B	Č						
ATOM	7775 OH TYR 7776 C TYR	248 248	67. 722 72. 674 29. 801 1. 00 10. 14 B 74. 385 70. 340 33. 353 1. 00 14. 77 B	0						
ATOM	7777 0 TYR	248	74. 385 70. 340 33. 353 1. 00 14. 77 B 75. 384 71. 049 33. 419 1. 00 15. 30 B	C 0						
ATOM	7778 N PRO	249	74. 441 69. 014 33. 544 1. 00 15. 88 B	N N						
ATOM ATOM	7779 CD PRO	249	73. 350 68. 031 33. 636 1. 00 15. 23 B	Ċ						
ATOM	7780 CA PRO 7781 CB PRO	249 249	75. 739 68. 381 33. 793 1. 00 16. 47 B	C						
ATOM	7782 CG PRO	249	75. 360 66. 947 34. 161 1. 00 16. 57 B 74. 086 66. 732 33. 417 1. 00 15. 37 B	C						
ATOM	7783 C PRO	249	74. 086 66. 732 33. 417 1. 00 15. 37 B 76. 568 68. 468 32. 515 1. 00 16. 66 B	C						
ATOM	7784 0 PRO	249	76.016 68.446 31.419 1.00 15.91 B	0						
ATOM ATOM	7785 N LYS 7786 CA LYS	250	77. 884 68. 586 32. 647 1. 00 16. 70 B	N						
ATOM	7787 CB LYS	250 250	78. 721 68. 683 31. 463 1. 00 18. 05 B 79. 920 69. 591 31. 719 1. 00 17. 36 B	C						
ATOM	7788 CG LYS	250	79. 920 69. 591 31. 719 1. 00 17. 36 B 80. 912 69. 015 32. 681 1. 00 22. 33 B	C C						
ATOM	7789 CD LYS	250	82. 204 69. 826 32. 691 1. 00 28. 25 B	C						
ATOM	7790 CE LYS	250	82. 952 69. 757 31. 355 1. 00 26. 52 B	Č						

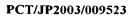
					FI	G. 4	160			(Continued)
ATOM ATOM	7791 7792	NZ C	LYS LYS	250 250	84. 262 79. 215			1.00 26.19 1.00 17.64	B B	N C
ATOM	7793	ŏ	LYS	250	79. 348		31.867	1.00 20.20	В	ŏ
ATOM	7794	N	THR		79. 478		29. 750	1.00 15.06	B	Ň
ATOM	7795	CA	THR		79. 978		29. 234	1.00 14.91	В	C
ATOM	7796	CB	THR		79. 317		27.896	1.00 13.86	В	C
ATOM	7797		THR		77. 965			1.00 14.97	В	0
ATOM	7798		THR		80.058		27. 227	1.00 13.23	В	Ċ
ATOM	7799	C	THR		81.473		29. 015	1.00 15.66	В	C
ATOM	7800	0	THR	251	81. 934		28. 227	1.00 18.88	В	0
ATOM ATOM	7801 7802	N CA	VAL VAL	$\begin{array}{c} 252 \\ 252 \end{array}$	82. 231 83. 675		29. 720 29. 578	1.00 15.28 1.00 15.13	В	N .
ATOM	7802	CB	VAL	252 252	84. 335		30. 882	1.00 13.13	B B	C
ATOM	7804		VAL	252	85. 827		30. 706	1.00 10.22	В	C
ATOM	7805		VAL	252	84. 012		31. 991	1.00 11.83	В	č
ATOM	7806	C	VAL	252	84. 027		28. 422	1.00 17.21	В	č
ATOM	7807	0	VAL	252	83.472		28. 304	1.00 17.34	B	Ō
ATOM	7808	N	ARG	253	84. 929		27.557	1.00 18.91	В	N
ATOM	7809	CA	ARG	253	85. 349	63.922	26.403	1.00 20.46	В	C
ATOM	7810	CB	ARG	253	84. 822	64.560	25. 113	1.00 22.21	В	C
ATOM	7811	CG	ARG	253	83. 399	64. 137	24. 755	1.00 26.72	В	C
ATOM	7812	CD	ARG	253	82. 847	64. 920	23.578	1.00 28.87	В	C
ATOM	7813	NE C7	ARG	253	82. 176	66. 132	24. 033	1.00 36.20	В	N
ATOM ATOM	7814 7815	CZ	ARG ARG	253 253	80. 870	66. 221	24. 278	1.00 38.47	В	C
ATOM	7816		ARG	253 253	80. 084 80. 352	65. 164 67. 360	24. 099 24. 727	1.00 39.84 1.00 37.97	В	N
ATOM	7817	C	ARG	253	86. 863	63.863	26. 389	1.00 37.97	B B	N C
ATOM	7818	ŏ	ARG	253	87. 520	64. 886	26. 246	1.00 13.71	В	0
ATOM	7819	Ň	VAL	254	87. 404	62.656	26. 538	1.00 18.34	В	N
ATOM	7820	CA	VAL	254	88. 847	62. 434	26. 594	1.00 15.15	В	Č
ATOM	7821	CB	VAL	254	89. 257	61.924	27.994	1.00 16.16	B	Č
ATOM	7822		VAL	254	90. 771	61.759	28.081	1.00 15.18	В	C
ATOM	7823	CG2		254	88. 736			1.00 16.46	В	С
ATOM	7824	C	VAL	254	89. 313	61.397	25. 585	1.00 14.67	В	С
ATOM	7825	0	VAL	254	88. 806	60. 272	25. 566	1.00 14.87	В	0
ATOM	7826 7827	N	PRO	255	90. 281	61.757	24. 726	1.00 13.62	В	N
ATOM ATOM	7828	CD CA	PRO PRO	255 255	90. 872 90. 760	63. 081 60. 777	24. 472	1.00 12.90	В	C
ATOM	7829	CB	PRO	255 255	91.786	61.566	23. 746 22. 933	1.00 12.62 1.00 11.40	В	C
ATOM	7830		PRO	255 255	91. 760	62.969	23. 013	1.00 11.40	B B	C C
ATOM	7831	C	PRO	255	91. 379	59.645	24. 553	1.00 11.05	В	C
ATOM	7832	ŏ	PRO	255	92. 355	59.831	25. 282	1.00 13.25	В	Ö
ATOM	7833	N	TYR	256	90. 796	58. 469	24. 414	1.00 12.53	В	Ň
ATOM	7834	CA	TYR	256	91. 217	57. 306	25.161	1.00 12.05	B	Ċ
ATOM	7835	CB	TYR	256	90. 319	57. 205	26.398	1.00 12.42	В	C
ATOM	7836	CG	TYR	256	90.608	56.082	27. 360	1.00 14.53	В	C
ATOM	7837	CD1		256	91.021	56. 355	28. 662	1.00 16.44	В	C
ATOM	7838	CE1		256	91.192	55. 337	29. 596	1.00 17.38	В	C C
ATOM	7839	CD2	IYK	256	90. 382	54.752	27.010	1.00 15.31	В	C

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										(Continued)
					FIG	. 4 -	161			
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7850 7851 7852	CE2 CZ OH C O N CD CA CB CG C	Z TYR TYR TYR TYR PRO PRO PRO PRO PRO PRO PRO PRO PRO PR	256 256 256 256 257 257	90. 548 90. 949 91. 068 91. 040 89. 923 92. 141 93. 535 92. 098 93. 473 94. 326 91. 859 92. 694 90. 723	53. 724 54. 030 53. 042 56. 094 55. 765 55. 415 55. 786 54. 229 54. 233 54. 657 52. 949 52. 556 52. 300	27. 941 29. 232 30. 176	1.00 16.91 1.00 16.54 1.00 17.03 1.00 11.63 1.00 10.78 1.00 9.21 1.00 9.97 1.00 8.95 1.00 8.91 1.00 11.12 1.00 9.90 1.00 11.97	B B B B B B B B	C C O C O N C C C C C C
ATOM	7853	CA	LYS	258	90. 444	51.057	24.353	1.00 13.52	В	C
ATOM ATOM	7854 7855	CB CG	LYS LYS	$\begin{array}{c} 258 \\ 258 \end{array}$		50. 855 51. 808	24. 492 25. 522	1.00 15.66 1.00 14.41	B B	C C
ATOM ATOM	7856 7857	CD CE	LYS LYS	258 258	86.801	51. 730 52. 655	25. 552 26. 627	1.00 14.41 1.00 18.08 1.00 19.12	B B	C
ATOM ATOM	7858 7859	NZ C	LYS	258		52. 156	28. 030	1.00 14.62	В	N
ATOM	7860	0	LYS LYS	258 258		49. 934 50. 139	23. 571 22. 437	1.00 14.64 1.00 16.07	B B	C 0
ATOM	7861	N	ALA	259	91.227	48. 760	24. 178	1.00 16.22	В	N N
ATOM	7862	CA	ALA	259		47.627	23. 515	1.00 14.83	В	C
ATOM ATOM	7863 7864	CB C	ALA	259		46. 356	24. 261	1.00 14.32	В	C
ATOM	7865	0	ALA ALA	259 259		47.476	22. 045	1.00 16.09	В	C
ATOM	7866	N	GLY	260		47. 415 47. 428	21. 710 21. 172	1.00 15.64 1.00 15.95	B B	0 N
ATOM	7867	CA	GLY	260		47. 269	19. 754	1.00 15.99	В	N C
ATOM	7868	C	GLY	260		48. 523	18. 982	1.00 17.08	В	Č
ATOM	7869	0	GLY	260	91.781	48. 488	17.752	1.00 18.87	B	ŏ
ATOM	7870	N	ALA	261		49.629	19.673	1.00 14.62	В	N
ATOM	7871	CA	ALA	261		50.851	18. 983	1.00 14.89	В	C
ATOM	7872	CB	ALA	261		51.830	19. 963	1.00 13.58	В	C
ATOM ATOM	7873 7874	C	ALA	261		51.509	18. 292	1.00 17.12	В	C
ATOM	7875	O N	ALA VAL	261 262		50. 986	18. 298	1.00 20.05	В	0
ATOM	7876	CA	VAL	262		52. 662 53. 384	17. 686 17. 004	1.00 17.34	В	N
ATOM	7877	CB	VAL	262		54. 371	15. 947	1.00 16.00 1.00 14.51	B B	C
ATOM	7878		VAL	262		55. 252	15. 383	1.00 14.51	В	C C
ATOM	7879		VAL	262		53. 596	14.820	1.00 10.82	В	Č
ATOM	7880	C	VAL	262		54. 150	18. 055	1.00 17.31	В	č
ATOM	7881	0	VAL	262	93. 432	54. 973	18.786	1.00 20.51	B	Ŏ
ATOM	7882	N	ASN	263		53.856	18.128	1.00 16.87	В	N
ATOM	7883	CA	ASN	263		4. 493	19.068	1.00 17.45	В	C
ATOM	7884	CB	ASN	263		3. 595	19. 292	1.00 17.58	В	C
ATOM ATOM	7885 7886	CG	ASN ASN	263 263		52. 629	20. 437	1.00 20.08	В	C
ATOM	7887		ASN	263		1.606		1.00 19.88	В	0
ATOM	7888	C	ASN	263		52. 950 55. 827	21. 365 18. 533	1.00 18.44 1.00 18.01	B B	N C

					FΙ	G. 4	-162	<u>!</u>		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7889 7890 7891 7892 7893 7894 7895 7896 7897 7898 7899 7900 7901 7902 7903 7904 7905 7906	C O N CA CB	THR THR THR VAL VAL VAL	263 264 264 264 264 264 265 265 265 265 265 265 266 266	96. 578 97. 288 97. 357 97. 819 98. 089 98. 411 99. 105 99. 560 100. 647 100. 081 99. 747 101. 818 101. 454 103. 095 104. 118 104. 626	56. 134 56. 646 56. 546 57. 926 58. 676 57. 605 56. 527 58. 521 58. 305 58. 677 59. 983 57. 687 59. 211 60. 126 58. 971 59. 781 59. 060	19. 413 20. 883 18. 950 20. 251 21. 214 18. 198 18. 369 17. 354 16. 617 15. 132	1.00 19.39 1.00 17.06 1.00 15.68 1.00 15.10 1.00 14.78 1.00 14.94 1.00 15.50 1.00 15.27	B B B B B B B B B B B B B B B B B B B	0 N C C C C C O N C C O C C O N C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7907 7908 7909 7910 7911 7912 7913 7914 7915 7916 7917 7918	CG1 CG2 C O N CA CB CG CD CE NZ	VAL	266 266 266 266 267 267 267 267 267 267	104. 626 105. 224 105. 642 105. 693 105. 889 107. 058 106. 678 105. 786 105. 786 104. 593 104. 225 108. 032	57. 714 59. 921 60. 112 59. 331 61. 287 61. 756 62. 855 62. 413 63. 605 63. 205 64. 402	18. 538 19. 666 16. 769 15. 893 17. 003 16. 272 15. 291 14. 168 13. 291 12. 119 11. 334	1.00 12.10 1.00 12.62 1.00 19.23 1.00 18.24 1.00 20.19 1.00 19.42 1.00 19.76 1.00 21.59 1.00 23.15 1.00 23.47 1.00 27.20	B B B B B B B	C C C O N C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7919 7920 7921 7922 7923 7924 7925 7926 7927 7928 7929	O N CA CB CG CD1 CD2 CE1 CE2 CZ	LYS PHE	267 268 268 268 268 268 268 268 268 268	103. 032 107. 618 109. 322 110. 325 111. 350 112. 186 111. 601 113. 555 112. 368 114. 332 113. 737 111. 016	62. 334 62. 826 62. 275 62. 818 61. 757 62. 131 62. 290 62. 327 62. 639 62. 674 62. 832 63. 979	17. 288 18. 336 16. 984 17. 882 18. 259 19. 444 20. 692 19. 313 21. 797 20. 405 21. 655 17. 192	1. 00 19. 59 1. 00 20. 86 1. 00 19. 32 1. 00 18. 94 1. 00 16. 21 1. 00 16. 35 1. 00 18. 80 1. 00 17. 68 1. 00 18. 66 1. 00 20. 34	B B B B B B B B	C O N C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7931 7932 7933 7934 7935 7936	N CA CB	PHE	268 269 269 269 269 269 269 269	111. 114 111. 491 112. 152 111. 141 110. 070 110. 332 108. 785 109. 326	64. 016 64. 931 66. 105 67. 239 66. 937 67. 019 66. 605 66. 781	15. 968 17. 981 17. 435 17. 222 16. 216 14. 853 16. 631 13. 912	1. 00 21. 73 1. 00 20. 76 1. 00 20. 74 1. 00 19. 80 1. 00 21. 88 1. 00 22. 75 1. 00 23. 20 1. 00 21. 98	B B B B B B	O N C C C C C

F I G. 4 - 1 6 3  ATOM 7938 CE2 PHE 269 107.771 66.364 15.700 1.00 23.06 B C ATOM 7939 CZ PHE 269 108.044 66.454 14.337 1.00 22.44 B C ATOM 7940 C PHE 269 113.209 66.606 18.402 1.00 21.66 B C ATOM 7941 0 PHE 269 113.127 66.376 19.613 1.00 21.27 B 0	
ATOM 7942 N VAL 270 114.195 67.305 17.858 1.00 21.99 B N ATOM 7943 CA VAL 270 115.239 67.896 18.667 1.00 23.26 B C ATOM 7944 CB VAL 270 116.527 67.062 18.635 1.00 23.10 B C ATOM 7945 CG1 VAL 270 117.517 67.624 19.630 1.00 23.57 B C ATOM 7946 CG2 VAL 270 116.219 65.609 18.985 1.00 23.02 B C	
ATOM 7947 C VAL 270 115.495 69.285 18.095 1.00 25.32 B C ATOM 7948 O VAL 270 115.600 69.460 16.880 1.00 26.00 B O ATOM 7949 N VAL 271 115.561 70.278 18.973 1.00 26.96 B N ATOM 7950 CA VAL 271 115.794 71.650 18.546 1.00 27.45 B C ATOM 7951 CB VAL 271 114.516 72.514 18.714 1.00 28.95 B C ATOM 7952 CG1 VAL 271 114.096 72.563 20.177 1.00 28.40 B C ATOM 7953 CG2 VAL 271 114.769 73.915 18.186 1.00 29.54 B C ATOM 7954 C VAL 271 116.926 72.258 19.363 1.00 27.39 B C ATOM 7955 O VAL 271 117.094 71.935 20.536 1.00 26.71 B O	
ATOM 7956 N ASN 272 117.706 73.128 18.728 1.00 27.87 B N ATOM 7957 CA ASN 272 118.828 73.788 19.383 1.00 27.39 B C ATOM 7958 CB ASN 272 119.951 74.056 18.378 1.00 27.64 B C ATOM 7959 CG ASN 272 121.179 74.672 19.031 1.00 29.11 B C ATOM 7960 0D1 ASN 272 121.094 75.706 19.696 1.00 28.35 B O ATOM 7961 ND2 ASN 272 122.330 74.036 18.841 1.00 30.38 B N ATOM 7962 C ASN 272 118.347 75.104 19.972 1.00 27.43 B C ATOM 7963 0 ASN 272 117.943 76.012 19.243 1.00 27.41 B O ATOM 7964 N THR 273 118.397 75.208 21.292 1.00 27.62 B N	
ATOM 7965 CA THR 273 117.938 76.411 21.959 1.00 28.77 B C ATOM 7966 CB THR 273 117.509 76.100 23.400 1.00 27.46 B C ATOM 7967 OG1 THR 273 118.653 75.727 24.181 1.00 28.06 B O ATOM 7968 CG2 THR 273 116.510 74.960 23.403 1.00 26.33 B C ATOM 7969 C THR 273 118.988 77.516 21.967 1.00 31.23 B C ATOM 7970 O THR 273 118.669 78.680 22.208 1.00 32.66 B O ATOM 7971 N ASP 274 120.239 77.157 21.698 1.00 32.45 B N ATOM 7972 CA ASP 274 121.315 78.139 21.676 1.00 33.79 B C ATOM 7973 CB ASP 274 122.671 77.446 21.775 1.00 34.63 B C	
ATOM 7974 CG ASP 274 123.019 77.049 23.193 1.00 36.82 B C ATOM 7975 OD1 ASP 274 124.047 76.363 23.385 1.00 37.48 B O ATOM 7976 OD2 ASP 274 122.267 77.430 24.117 1.00 37.18 B O ATOM 7977 C ASP 274 121.277 78.996 20.419 1.00 35.09 B C ATOM 7978 O ASP 274 121.899 80.058 20.366 1.00 34.53 B O ATOM 7979 N SER 275 120.540 78.542 19.412 1.00 35.53 B N ATOM 7980 CA SER 275 120.456 79.279 18.166 1.00 37.39 B C ATOM 7981 CB SER 275 121.096 78.462 17.051 1.00 36.90 B C ATOM 7982 OG SER 275 120.476 77.197 16.948 1.00 41.05 B O ATOM 7983 C SER 275 120.476 77.197 16.948 1.00 41.05 B O ATOM 7983 C SER 275 119.030 79.652 17.781 1.00 39.58 B C ATOM 7984 O SER 275 118.580 79.355 16.673 1.00 40.66 B O ATOM 7985 N LEU 276 118.323 80.311 18.695 1.00 40.56 B N	



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				FIG.	4 - 164	4		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7991 7992 7993 7994 7995 7996 7997 7998 7999 8000 8001 8002 8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8016 8017 8018 8019 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8020 8021 8022 8023 8023	VAL THR CA THR CB THR CG1 THR CG2 THR THR ASN A ASN B ASN G ASN D1 ASN	276 276 276	116. 076 80 116. 002 78 115. 319 78 115. 261 78 116. 914 82 117. 675 83 116. 029 82 115. 916 84 116. 489 84 116. 268 85 114. 494 84 113. 529 83 114. 378 85 113. 081 86 113. 204 87 113. 617 87 112. 531 86 113. 419 86 112. 995 86 114. 189 87 113. 709 87 114. 902 88 112. 340 85 111. 130 85 113. 145 84 112. 651 83	0. 425       19. 664         3. 958       20. 09'         3. 876       21. 44!         3. 134       19. 05'         3. 229       18. 140'         3. 044       16. 863'         4. 277       15. 462'         586       16. 701'         856       16. 701'         884       17. 148'         535       17. 202'         899       17. 884'         759       19. 234'         710       15. 794'         829       15. 600'         723       14. 808'         889       13. 428'         229       12. 514'         454       11. 089'         464       13. 037'         606       12. 941'         433       13. 082'         708       12. 380'         432       11. 872'         709       11. 032'         479       10. 531'         399       11. 883'         484       12. 992'         677       14. 155'         447       12. 622'         454       13. 089'         786       13. 096'	4 1.00 38.58 7 1.00 36.34 5 1.00 35.16 7 1.00 32.57 0 1.00 41.99 1 1.00 41.16 3 1.00 46.53 2 1.00 48.49 1.00 50.90 1.00 46.23 1.00 46.82 1.00 46.82 1.00 47.82 1.00 48.09 1.00 48.09 1.00 48.26	B B B B B B B B B B B B B B B B B B B	$\tt CCCCCONCCONCCONCCCONCCCONCCCONCCCONCCC$
ATOM ATOM	8024 N 8025 C	D2 ASN	281 281	108. 351 81. 4 107. 873 80. 8 112. 088 79. 3	868 11.984	1.00 49.62 1.00 52.14 1.00 43.47	B B B	0 N
ATOM ATOM ATOM ATOM ATOM	8026 0 8027 N 8028 CA 8029 CI 8030 C	ALA A ALA	281 282 282 282 282	112.874 79.0 112.100 78.8 113.045 77.7 112.795 77.3 112.863 76.6	065 12.919 323 15.019 773 15.371 301 16.792	1.00 44.44 1.00 41.76 1.00 38.62 1.00 37.75	В В В В	C O N C
ATOM ATOM ATOM ATOM ATOM	8031 0 8032 N 8033 CA 8034 CE 8035 00	ALA THR A THR B THR	282 283 283 283 283	111.797 76.4 113.905 75.8 113.828 74.6 114.867 74.7	163 13.815 816 14.231 672 13.335 172 12.218	1.00 37.34 1.00 36.86 1.00 36.50 1.00 35.84 1.00 37.70	B B B	C
II OIU	5550 00	1111/	200	114.665 75.9	94 11.495	1.00 41.71	В	0

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					FIC	G. 4-	165			(Continued)
ATOM ATOM	8036 8037	CG2 C	THR THR		114. 736 114. 074	73. 595 73. 403	11. 265 14. 125	1.00 37.32 1.00 33.58	B B	C C
ATOM	8038	Ö	THR	283	115. 098	73. 263	14.774	1.00 34.31	B	Ö
ATOM	8039	N	SER	284	113. 123	72.482	14.073	1.00 32.05	В	N
ATOM	8040	CA	SER		113. 250	71. 230	14.800	1.00 30.43	В	C
ATOM	8041	CB	SER		111. 935	70. 893	15.507	1.00 28.61	В	C
ATOM ATOM	8042 8043	OG C	SER SER		111.722	71. 761 70. 090	16.605	1.00 29.31 1.00 30.34	B B	0 C
ATOM	8044	0	SER		113. 638 113. 003	69. 865	13. 883 12. 850	1.00 30.34	В	0
ATOM	8045	N	ILE	285	114. 684	69. 367	14. 260	1.00 31.22	В	N N
ATOM	8046	CA	ILE	285	115. 130	68. 241	13. 457	1.00 28.80	В	C
ATOM	8047	CB	ILE	285	116.660	68. 037	13.546	1.00 29.35	B	Č
ATOM	8048	CG2	ILE	285	117.103	66.979	12.548	1.00 29.12	В	C
ATOM	8049		ILE	285	117. 383	69.350	13.250	1.00 30.38	В	С
ATOM	8050		ILE	285	117. 408	70. 303	14. 428	1.00 34.47	В	C
ATOM	8051	C	ILE	285	114. 429	66. 996	13. 976	1.00 28.14	В	C
ATOM	8052	0	ILE	285	114. 472	66. 694	15. 168	1.00 30.23	В	0
ATOM	8053 8054	N	GLN GLN	286	113.775		13.078	1.00 25.84	В	N C
ATOM ATOM	8055	CA CB	GLN	286 286	113.067 111.852		13. 457 12. 550	1.00 24.81 1.00 23.81	B B	C C
ATOM	8056	CG	GLN	286	111. 052	63. 547	12. 715	1.00 23.29	В	C
ATOM	8057	CD	GLN	286	109. 928	63. 417	11.868	1.00 23.23	В	č
ATOM	8058		GLN	286	109. 253	62. 388	11.894	1.00 25.22	В	ŏ
ATOM	8059		GLN	286	109.614	64. 461	11.110	1.00 23.87	B	N
ATOM	8060	C	GLN	286	113.955	63.838	13.386	1.00 25.74	В	C
ATOM	8061	0	GLN	286	114.832	63.732	12.526	1.00 26.39	В	0
ATOM	8062	N	ILE	287	113. 723	62.908	14.307	1.00 24.54	В	N
ATOM	8063	CA	ILE	287	114. 458	61.655	14.346	1.00 23.40	В	C
ATOM	8064	CB	ILE	287	115.193	61.481	15.694	1.00 21.87	В	C
ATOM ATOM	8065 8066		ILE	287 287	115.925	60.143	15. 728	1.00 20.61	В	C
ATOM	8067		ILE ILE	287	116. 180 117. 054	62. 632 62. 506	15.887 17.113	1.00 19.27 1.00 20.58	B B	C
ATOM	8068		ILE	287	113.394			1.00 20.58	В	C C
ATOM	8069	ŏ	ILE	287	112.729		15. 142	1.00 27.03	В	0
ATOM	8070	Ň	THR	288	113. 219		12.966	1.00 25.43	В	Ň
ATOM	8071	CA	THR	288	112. 205		12. 708	1.00 26.10	B	Ċ
ATOM	8072	CB	THR	288	111.964		11.188	1.00 26.69	В	Ċ
ATOM	8073		THR	288	113.172		10.539	1.00 26.37	В	0
ATOM	8074		THR	288	111.510		10.593	1.00 25.25	В	С
ATOM	8075	C	THR	288	112.529		13. 335	1.00 26.85	В	C
ATOM	8076	0	THR	288	113.687		13. 503	1.00 27.04	В	0
ATOM ATOM	8077 8078	N CA	ALA	289 289	111.484		13. 702	1.00 28.37	В	N
ATOM	8079	CB	ALA ALA	289 289	111.638 110.271		14. 325 14. 710	1.00 27.90 1.00 26.91	B B	C C
ATOM	8080	C	ALA	289	110. 211		13. 380	1.00 20.31	В	C
ATOM	8081	ŏ	ALA	289	112.550		12. 205	1.00 28.30	В	0
ATOM	8082	Ň	PRO	290	112.758		13. 895	1.00 26.01	B	N
ATOM	8083		PRO	290	112. 903		15. 328	1.00 24.74	B	С
ATOM	8084	CA	PRO	290	113.445	52.569	13.089	1.00 25.29	В	C

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					FIG. 4 - 1	6.6		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8085 8086 8087 8088 8089 8090 8091 8092 8093 8094 8095 8096 8097 8098 8100 8101 8102 8103 8104	CB CC ON CA CB CC ON CA CB CC ON CA CB CC CB CC CB CC CB CC CC CC CC CC CC	PRO PRO PRO ALA ALA ALA ALA SER SER SER MET MET MET MET	290 290 290 290 291 291 291 291 292 292 292 292 292 293 293 293 293	114. 151       52. 467       1         112. 465       51. 931       1         111. 255       51. 961       1         112. 988       51. 345       1         112. 143       50. 730       1         112. 987       50. 271       1         111. 337       49. 568       1         110. 203       49. 331       1         111. 916       48. 843       1         112. 161       46. 892       1         112. 161       46. 892       1         112. 525       47. 626       1         109. 176       47. 376       1         109. 976       49. 487       1         109. 387       51. 173       1         109. 387       51. 173       1         109. 323       49. 647       1	4. 138	B B B B B B B B B B B B B B B B B B B	C C C O N C C C O N C C C C S
ATOM ATOM ATOM	8105 8106 8107	CE C O	MET MET MET	293 293 293	107. 836 50. 677 13	7. 438	B B	C C
ATOM ATOM	8108 8109	N CA	LEU LEU	294 294	108. 292 51. 360 11 107. 393 52. 008 11	1.983 1.00 24.37 1.041 1.00 23.80	B B B	O N C
ATOM ATOM ATOM	8110 8111 8112	CB CG CD1	LEU LEU LEU	294 294 294	108. 945 54. 072 10	0.114	B B B	C C C
ATOM ATOM ATOM	8113 8114 8115	CD2 C O	LEU LEU LEU	294 294 294	107. 958 55. 037 11 106. 540 51. 059 10	1.440 1.00 23.08 0.204 1.00 23.95	B B	C C
ATOM ATOM	8116 8117	N CA	ILE ILE	295 295	106.724 49.754 10	0. 422	B B B	O N C
ATOM ATOM ATOM	8118 8119 8120	CB CG2 CG1	ILE ILE ILE	295 295 295	107. 972 47. 595 8	9. 453	B B	C C
ATOM ATOM	8121 8122	CD1 C	ILE ILE	295 295	107. 211 45. 388 10 104. 564 48. 575 10	0.789 1.00 28.37 0.221 1.00 26.01	B B B	C C C
ATOM ATOM ATOM	8123 8124 8125	O N CA	ILE GLY GLY	295 296 296	104. 263 49. 328 11	1.775 1.00 28.75 .273 1.00 24.77	B B	O N
ATOM ATOM	8126 8127	0 0	GLY GLY	296 296	102. 908 50. 040 13 103. 820 50. 818 13	. 951	B B B	C C O
ATOM ATOM ATOM	8128 8129 8130	N CA CB	ASP ASP ASP	297 297 297	101.654 50.718 15	3. 935	B B B	N C C
ATOM ATOM ATOM	8131 8132 8133	CG OD1 OD2	ASP ASP	297 297 297	99. 109 50. 665 15 98. 016 50. 234 15	. 078	B B B	C 0 0

										(Continued)
					FIC	G. 4-	167			<b>( )</b>
ATOM	8134	С	ASP	297	102.845	50. 481	16.065	1.00 20.31	В	С
ATOM	8135	0	ASP	297	103.419	49.390	16.096	1.00 20.82	В	0
<b>ATOM</b>	8136	N	HIS	298	103. 220	51.508	16.814	1.00 16.87	В	N
ATOM	8137	CA	HIS	298	104.335	51.384	17. 734	1.00 16.48	В	C
ATOM	8138	CB	HIS	298	105.669	51.399	16.968	1.00 14.91	В	C
ATOM	8139	CG	HIS	298	105.868	<b>52. 628</b>	16.137	1.00 12.24	В	C
ATOM	8140		HIS	298	106. 539	53. 775	16. 391	1.00 10.39	В	C
ATOM	8141		HIS	298	105. 264	52.802	14.909	1.00 11.35	В	N
ATOM	8142		HIS	298	105. 551	54.005	14. 445	1.00 11.25	В	C
ATOM	8143		HIS	298	106. 323	54.616	15. 326	1.00 11.96	В	N
ATOM	8144	Č.	HIS	298	104. 274	52. 560	18. 693	1.00 15.84	В	C
ATOM	8145	0	HIS	298	103. 484	53. 476	18. 505	1.00 17.04	В	0
ATOM	8146	N	TYR	299	105. 127	52. 539	19. 706	1.00 15.50	В	N
ATOM	8147	CA	TYR	299	105.163	53. 599	20. 698	1.00 15.35	В	C
ATOM	8148	CB	TYR	299	104.640	53. 095	22. 047	1.00 14.51	В	C
ATOM	8149	CG	TYR	299	103. 343	52. 320	22. 037	1.00 14.30	В	C
ATOM	8150		TYR	299	102. 120	52. 973	21. 942	1.00 13.49	В	C
ATOM ATOM	8151 8152		TYR TYR	299 299	100. 924 103. 341	52. 269 50. 933	22.019	1.00 15.63 1.00 14.56	В	C
ATOM	8153		TYR	299 299	103. 341	50. 933 50. 216	22. 198 22. 273	1.00 14.56	B B	C
ATOM	8154	CZ	TYR	299	102.130	50. 210	22. 213	1.00 15.40	В	C C
ATOM	8155	OH	TYR	299	99. 756	50. 197	22. 286	1.00 15.75	В	0
ATOM	8156	C	TYR	299	106. 583	54. 084	20. 952	1.00 16.54	В	C
ATOM	8157	ŏ	TYR	299	107.559	53. 364	20. 732	1.00 15.53	В	0
ATOM	8158	Ň	LEU	300	106.688	55. 316	21. 428	1.00 16.67	В	N
ATOM	8159	CA	LEU	300	107. 975	55. 853	21. 818	1.00 17.75	В	Č
ATOM	8160	CB	LEU	300	107. 986	57. 367	21. 654	1.00 18.54	B	č
ATOM	8161	ĊĞ	LEU	300	109. 238	58. 059	22. 183	1.00 20.06	B	č
ATOM	8162		LEU	300	110.449	57. 535	21.429	1.00 20.50	B	č
ATOM	8163		LEU	300	109.107	59. 567	22.024	1.00 20.10	В	Č
ATOM	8164	С	LEU	300	107.897	55.477	23. 294	1.00 18.55	В	Č
ATOM	8165	0	LEU	300	106.894	55.783	23. 935	1.00 20.71	В	0
ATOM	8166	N	CYS	301	108.901	54.805	23.849	1.00 18.50	В	N
ATOM	8167	CA	CYS	301	108.788	54.418	25. 252	1.00 20.22	В	C
ATOM	8168	CB	CYS	301	108.582	52.907	25.375	1.00 20.55	В	C
ATOM	8169	SG	CYS	301	109.922	51.905	24.722	1.00 26.11	В	S
ATOM	8170	C	CYS	301	109.895	54.842	26. 194	1.00 20.82	В	C
ATOM	8171	0	CYS	301	109.816	54. 579	27. 395	1.00 21.62	В	0
ATOM	8172	N	ASP	302	110.922	55.496	25.662	1.00 22.13	В	N
ATOM	8173	CA	ASP	302	112.035	55. 968	26. 481	1.00 20.03	В	C
ATOM	8174	CB	ASP	302	112.875	54.810	27.014	1.00 20.49	В	Č
ATOM	8175	CG	ASP	302	114.035	55. 296	27. 868	1.00 25.77	В	C
ATOM	8176		ASP	302	113.880	55. 344	29. 109	1.00 26.02	В	0
ATOM	8177		ASP	302	115.097	55.664	27. 297	1.00 27.73	В	0
ATOM	8178	C	ASP	302	112.959	56.894	25. 711	1.00 20.08	В	C
ATOM	8179 8180	0 N	ASP	302 303	113.367	56. 596	24. 586	1.00 19.30	В	0 N
ATOM ATOM	8181	N CA	VAL VAL	303	113.302 114.188	58. 010 59. 000	26. 343 25. 756	1.00 20.41 1.00 20.36	B B	N C
ATOM	8182	CB	VAL	303	113.435	60.316	25. 470	1.00 20.30	В	C C
ALL ORG	0100	OD.	יעניי	000	110. 100	00.010	AU. TIU	1.00 10.01	ע	U

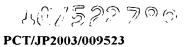
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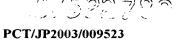
					FIG	G. 4-	168			(Continue	:d)
ATOM ATOM ATOM	8183 8184 8185	CG2 C	VAL VAL VAL	303 303 303	114. 387 112. 260 115. 267	61.347 60.043 59.251	24. 857 24. 540 26. 788	1.00 20.23 1.00 17.52 1.00 21.02	B B B	C C C	
ATOM ATOM ATOM ATOM	8186 8187 8188 8189	O N CA CB	VAL THR THR THR	303 304 304 304	114. 950 116. 536 117. 639 118. 008	59. 568 59. 112 59. 313 58. 002	27. 939 26. 389 27. 332 28. 046	1.00 19.39 1.00 21.38 1.00 21.48 1.00 19.77	B B B	O N C C	
ATOM ATOM ATOM ATOM	8190 8191 8192 8193	OG1 CG2 C	THR THR THR THR	304 304 304 304	116. 869 119. 136 118. 925 119. 579	57. 496 58. 242 59. 851 59. 159	28. 751 29. 026 26. 729 25. 952	1.00 19.55 1.00 20.57 1.00 22.96 1.00 25.30	B B B	0 C C 0	
ATOM ATOM ATOM ATOM	8194 8195 8196 8197	N CA CB CG	TRP TRP TRP TRP	305 305 305 305	119. 307 120. 545 120. 696 119. 682	61. 069 61. 643 63. 114 64. 002	27. 102 26. 583 26. 975 26. 354	1. 00 22. 41 1. 00 21. 86 1. 00 20. 21 1. 00 18. 90	B B B	N C C C	
ATOM ATOM ATOM ATOM	8198 8199 8200 8201	CE2 CE3	TRP TRP TRP TRP	305 305 305 305	119. 834 118. 614 120. 885 118. 414	64. 751 65. 413 64. 928 64. 232	25. 150 24. 917 24. 243 26. 794	1.00 18.79 1.00 20.14 1.00 18.65 1.00 17.49	B B B	C C C	
ATOM ATOM ATOM ATOM	8202 8203 8204 8205	CZ2 CZ3	TRP TRP TRP TRP	305 305 305 305	117. 764 118. 413 120. 689 119. 459	65. 077 66. 242 65. 746 66. 395	25. 938 23. 812 23. 152 22. 943	1.00 18.37 1.00 19.16 1.00 19.59 1.00 21.43	В В В В	N C C C	
ATOM ATOM ATOM ATOM	8206 8207 8208 8209	C O N CA	TRP TRP ALA ALA	305 305 306 306	121.722 121.743 122.697 123.899	60. 875 60. 552 60. 591 59. 864	27. 148 28. 338 26. 285 26. 673	1.00 22.21 1.00 21.63 1.00 22.53 1.00 21.31	В В В В	C O N C	
ATOM ATOM ATOM ATOM	8210 8211 8212 8213	CB C O N	ALA ALA ALA THR	306 306 306 307	124. 350 124. 975 125. 675 125. 086	58. 969 60. 882 60. 767 61. 885	25. 533 27. 000 28. 007 26. 133	1.00 20.65 1.00 21.97 1.00 20.32 1.00 23.85	B B B	C C O N	
ATOM ATOM ATOM ATOM	8214 8215 8216 8217	CA CB OG1 CG2	THR THR THR THR	307 307 307 307	126.057 127.285 126.894 127.892	62. 964 62. 744 62. 855 61. 374	26. 284 25. 411 24. 040 25. 659	1.00 24.42 1.00 22.67 1.00 25.33 1.00 19.34	B B B	C C O C	
ATOM ATOM ATOM ATOM	8218 8219 8220 8221	C O N CA	THR THR GLN GLN	307 307 308 308	125. 397 124. 177 126. 210 125. 699	64. 250 64. 326 65. 249 66. 540	25. 812 25. 731 25. 479 25. 022	1.00 25.73 1.00 28.17 1.00 26.09 1.00 24.49	В В В	C O N C	
ATOM ATOM ATOM ATOM	8222 8223 8224 8225	CB CG CD OE1	GLN GLN GLN GLN	308 308 308 308	126. 762 127. 301 126. 256 126. 477	67. 634 67. 811 68. 296 68. 290	25. 175 26. 574 27. 548 28. 754	1.00 22.95 1.00 21.20 1.00 20.30 1.00 23.08	B B B	C C C O	
ATOM ATOM ATOM ATOM	8226 8227 8228 8229	NE2 C O N	GLN GLN GLN GLU	308 308 308 309	125. 116 125. 284 124. 612 125. 687	68. 727 66. 501 67. 411 65. 459	27. 032 23. 569 23. 095 22. 855	1.00 21.02 1.00 25.09 1.00 26.23 1.00 25.59	B B B	N C O N	
ATOM ATOM	8230 8231	CA CB	GLU GLU	309 309	125.370 126.581	65. 374 65. 807	21. 440 20. 627	1. 00 26. 16 1. 00 25. 99	B B	C	

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			FIG. 4-169	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8232 CG GL 8233 CD GL 8234 OE1 GL 8235 OE2 GL 8236 C GL 8237 O GL 8238 N ARG 8239 CA ARG 8240 CB ARG 8241 CG ARG 8241 CG ARG	U 309 U 309 U 309 U 309 U 309 G 310 G 310 G 310 G 310	FIG. 4 - 169  126.925 67.280 20.774 1.00 29.27 128.243 67.637 20.109 1.00 31.48 128.614 66.968 19.115 1.00 32.54 128.900 68.593 20.572 1.00 32.54 124.939 63.991 21.004 1.00 26.83 124.850 63.712 19.806 1.00 28.64 124.674 63.131 21.982 1.00 25.93 124.246 61.765 21.723 1.00 24.07 125.357 60.790 22.121 1.00 24.28 125.012 59.317 21.952 1.00 25.64 126.255 58.469 22.132 1.00 24.20 127.225 58.790 21.097 1.00 25.36	B C B C B C B C B C B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8244 CZ ARC 8245 NH1 ARC 8246 NH2 ARC 8247 C ARC 8248 O ARC 8249 N ILE 8250 CA ILE 8251 CB ILE 8252 CG2 ILE 8253 CG1 ILE	310 310 310 310 311 311 311 311	119. 586 61. 876 22. 067 1. 00 18. 52 119. 293 61. 742 20. 593 1. 00 18. 77	B C B N B C B C B C B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8254 CD1 ILE 8255 C ILE 8256 O ILE 8257 N SER 8258 CA SER 8259 CB SER 8260 OG SER 8261 C SER	311 311 312 312 312 312 312 312	117. 255       62. 774       22. 626       1. 00       15. 33         120. 233       59. 440       22. 107       1. 00       20. 81         120. 380       59. 036       20. 959       1. 00       21. 43         119. 734       58. 686       23. 080       1. 00       21. 54         119. 269       57. 326       22. 832       1. 00       21. 49         119. 889       56. 355       23. 837       1. 00       22. 73         119. 365       56. 575       25. 132       1. 00       23. 02         117. 758       57. 315       22. 985       1. 00       20. 72	B C B C B O B C B C B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8262 O SER 8263 N LEU 8264 CA LEU 8265 CB LEU 8266 CG LEU 8267 CD1 LEU 8268 CD2 LEU 8269 C LEU 8270 O LEU	312 313 313 313 313 313 313 313	117. 214       57. 998       23. 853       1. 00       22. 17         117. 088       56. 544       22. 136       1. 00       21. 93         115. 631       56. 428       22. 155       1. 00       22. 17         115. 013       57. 179       20. 979       1. 00       23. 76         115. 314       58. 656       20. 754       1. 00       27. 56         114. 707       59. 068       19. 410       1. 00       29. 23         114. 740       59. 497       21. 890       1. 00       28. 89         115. 229       54. 968       22. 022       1. 00       22. 50         115. 868       54. 209       21. 293       1. 00       22. 55	B
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8271 N GLN 8272 CA GLN 8273 CB GLN 8274 CG GLN 8275 CD GLN 8276 OE1 GLN 8277 NE2 GLN 8278 C GLN 8279 O GLN 8280 N TRP	314 314 314 314 314 314 314 314 315		B N B C B C B C B C B C B C B C B C B C B C



ATOM 8330 C ILE 319 104.036 44.122 20.802 1.00 16.78 B C ATOM 8331 0 ILE 319 105.145 44.086 20.257 1.00 16.37 B O ATOM 8332 N GLN 320 103.850 44.367 22.092 1.00 17.82 B N ATOM 8333 CA GLN 320 104.923 44.693 23.016 1.00 18.01 B C ATOM 8334 CB GLN 320 104.293 45.341 24.248 1.00 16.84 B C ATOM 8335 CG GLN 320 103.383 46.495 23.863 1.00 16.48 B C ATOM 8336 CD GLN 320 102.833 47.250 25.048 1.00 17.06 B C ATOM 8337 0E1 GLN 320 103.544 47.509 26.016 1.00 18.02 B O ATOM 8338 NE2 GLN 320 101.566 47.633 24.966 1.00 16.46 B N ATOM 8339 C GLN 320 105.964 43.663 23.437 1.00 18.97 B C ATOM 8340 0 GLN 320 105.964 43.663 23.437 1.00 18.97 B C ATOM 8341 N ASN 321 106.382 42.800 22.520 1.00 19.64 B N ATOM 8342 CA ASN 321 106.382 42.800 22.520 1.00 19.64 B N ATOM 8343 CB ASN 321 106.382 42.800 22.520 1.00 19.64 B N ATOM 8343 CB ASN 321 106.950 40.399 22.719 1.00 23.79 B C ATOM 8344 CG ASN 321 106.409 40.085 21.332 1.00 27.68 B C ATOM 8345 0D1 ASN 321 106.593 40.839 20.374 1.00 28.16 B O ATOM 8345 0D1 ASN 321 106.593 40.839 20.374 1.00 28.16 B O ATOM 8345 0D1 ASN 321 106.593 40.839 20.374 1.00 28.16 B O ATOM 8346 ND2 ASN 321 106.593 40.839 20.374 1.00 28.16 B O ATOM 8346 ND2 ASN 321 106.593 40.839 20.374 1.00 28.16 B O	Continued)
ATOM 8347 C ASN 321 108.658 42.087 22.036 1.00 21.63 B C ATOM 8348 0 ASN 321 109.533 41.228 21.940 1.00 23.87 B O ATOM 8349 N TYR 322 108.735 43.275 21.444 1.00 20.56 B N ATOM 8350 CA TYR 322 109.873 43.644 20.613 1.00 18.63 B C ATOM 8351 CB TYR 322 109.605 43.208 19.178 1.00 18.95 B C ATOM 8352 CG TYR 322 110.766 43.362 18.228 1.00 21.29 B C ATOM 8353 CD1 TYR 322 111.086 44.604 17.677 1.00 21.18 B C ATOM 8354 CE1 TYR 322 111.18 44.733 16.759 1.00 22.17 B C ATOM 8355 CD2 TYR 322 111.520 42.252 17.840 1.00 20.55 B C ATOM 8356 CE2 TYR 322 112.557 42.372 16.925 1.00 21.33 B C ATOM 8357 CZ TYR 322 112.847 43.611 16.387 1.00 22.88 B C	
ATOM 8358 OH TYR 322 113.855 43.726 15.461 1.00 28.00 B O ATOM 8359 C TYR 322 110.115 45.149 20.678 1.00 18.95 B C ATOM 8360 O TYR 322 109.240 45.945 20.338 1.00 20.45 B O ATOM 8361 N SER 323 111.299 45.537 21.139 1.00 18.50 B N ATOM 8362 CA SER 323 111.657 46.946 21.233 1.00 17.89 B C ATOM 8363 CB SER 323 111.623 47.418 22.684 1.00 18.88 B C ATOM 8364 OG SER 323 112.602 46.740 23.444 1.00 21.21 B O ATOM 8365 C SER 323 113.057 47.131 20.677 1.00 16.99 B C ATOM 8366 O SER 323 113.851 46.190 20.657 1.00 15.79 B O ATOM 8367 N VAL 324 113.360 48.345 20.230 1.00 16.51 B N ATOM 8368 CA VAL 324 114.672 48.638 19.664 1.00 17.39 B C ATOM 8369 CB VAL 324 114.672 48.638 19.664 1.00 17.39 B C ATOM 8370 CG1 VAL 324 113.454 49.550 17.692 1.00 22.04 B C ATOM 8371 CG2 VAL 324 115.901 49.257 17.565 1.00 20.08 B C ATOM 8372 C VAL 324 115.901 49.257 17.565 1.00 20.08 B C ATOM 8373 O VAL 324 115.201 49.970 20.151 1.00 16.54 B C ATOM 8373 O VAL 324 115.201 49.970 20.151 1.00 16.54 B C ATOM 8373 O VAL 324 114.460 50.946 20.243 1.00 19.05 B O ATOM 8374 N MET 325 116.487 50.011 20.463 1.00 15.89 B N ATOM 8375 CA MET 325 116.487 50.011 20.463 1.00 17.97 B C ATOM 8376 CB MET 325 118.053 50.997 22.083 1.00 17.97 B C ATOM 8376 CB MET 325 118.053 50.997 22.083 1.00 17.97 B C ATOM 8377 CG MET 325 118.682 52.280 22.597 1.00 19.56	0 C O N C C C C C C C C C C C C C C C C C



					D. I. /	2 4	1 7 0			(Continued)
					FIC	G. 4-	1 / 2			
ATOM	8379	CE	MET	325	118.765	51.442	25. 211	1.00 21.39	В	C
ATOM	8380	C	MET	325	117. 895	51.875	19. 782	1.00 17.82	В	C
ATOM	8381	0	MET	325	118.658	51. 198	19.082	1.00 15.28	В	0
ATOM	8382	N	ASP	326	117.698	53. 175	19.607	1.00 18.85	В	N
ATOM	8383	CA	ASP	326	118.409	53. 922	18. 591 17. 695	1.00 21.89	В	C
ATOM ATOM	8384 8385	CB CG	ASP ASP	326 326	117. 436 117. 533	54. 685 54. 272	16. 244	1.00 22.04 1.00 23.15	B B	C C
ATOM	8386		ASP	326	116.800	54. 272 54. 855	15. 418	1.00 25.15	В	0
ATOM	8387		ASP	326	118. 334	53. 366	15. 416	1.00 23.67	В	0
ATOM	8388	C	ASP	326	119. 299	54. 904	19. 327	1.00 23.07	В	Č
ATOM	8389	ŏ	ASP	326	118. 896	55. 494	20. 335	1.00 25.63	В	Ö
ATOM	8390	N	ILE	327	120. 521	55. 062	18.842	1.00 25.49	В	N N
ATOM	8391	CA	ILE	327	121.451	55. 986	19. 459	1.00 27.44	В	Č
ATOM	8392	CB	ILE	327	122.713	55. 263	19. 936	1.00 27.10	B	č
ATOM	8393		ILE	327	123.697	56. 264	20. 515	1.00 27.85	B	č
ATOM	8394		ILE	327	122.321	54. 221	20. 984	1.00 25.49	B	č
ATOM	8395		ILE	327	123.476	53. 506	21.594	1.00 27.60	B	Č
ATOM	8396	C	ILE	327	121.784	57.005	18.395	1.00 29.15	В	Ċ
<b>ATOM</b>	8397	0	ILE	327	122.357	56.673	17.357	1.00 31.19	В	0
ATOM	8398	N	CYS	328	121.414	58. 250	18.653	1.00 30.14	В	N
ATOM	8399	CA	CYS	328	121.624	59. 298	17.684	1.00 31.56	В	C
ATOM	8400	C	CYS	328	122.624	60. 356	18.084	1.00 32.64	В	C
ATOM	8401	0	CYS	328	122. 525	60.972	19. 153	1.00 33.03	В	0
ATOM	8402	CB	CYS	328	120. 286	59. 938	17. 366	1.00 32.73	В	C
ATOM	8403	SG	CYS	328	118. 979	58. 689	17. 154	1.00 36.31	В	S
ATOM	8404	N	ASP	329	123. 596	60. 555	17. 200	1.00 32.72	В	N
ATOM	8405	CA	ASP	329	124.639	61.542	17. 406	1.00 32.74	В	C
ATOM	8406	CB	ASP	329	125.997	60.975	16. 981	1.00 34.70	В	C
ATOM	8407	CG	ASP	329	126.480	59.858	17. 894	1.00 36.73	В	C
ATOM	8408	0D1	ASP	329	127.643	59. 431	17. 735	1.00 38.23	В	0
ATOM	8409		ASP	329	125. 706	59.405	18. 767	1.00 36.00	В	0
ATOM	8410	C	ASP	329	124. 320	62. 781	16.588	1.00 31.70	В	C
ATOM ATOM	8411 8412	0 N	ASP	329	123.767			1.00 30.70	В	0
ATOM	8413	N CA	TYR TYR	330 330	124.662	63.940	17.129	1.00 31.69	В	N
ATOM	8414	CB	TYR	330	124. 420 124. 376	65. 191 66. 354	16. 428 17. 411	1.00 33.40 1.00 30.81	В	C
ATOM	8415	CG	TYR	330	124. 370	67. 693	16. 728	1.00 30.81	B B	C C
ATOM	8416		TYR	330	123. 185		16. 030	1.00 29.75	В	C
ATOM	8417		TYR	330	123. 121		15. 399	1.00 30.07	В	C
ATOM	8418		TYR	330	125. 407		16. 777	1.00 30.54	В	Č
ATOM	8419		TYR	330	125. 356		16. 150	1.00 30.16	В	č
ATOM	8420	CZ	TYR	330	124. 206		15. 465	1.00 31.10	B	č
ATOM	8421	ОH	TYR	330	124. 122		14.867	1.00 29.92	B	ŏ
ATOM	8422	C	TYR	330	125. 523		15. 412	1.00 35.09	B	č
ATOM	8423	0	TYR	330	126.692	65. 552	15.772	1.00 36.29	B	Ö
ATOM	8424	N	ASP	331	125. 149	65.600	14.146	1.00 37.07	B	N
ATOM	8425	CA	ASP	331	126. 123	65.886	13.106	1.00 39.50	В	С
ATOM	8426		ASP	331	125.611	65. 391	11.756	1.00 39.77	В	С
ATOM	8427	CG	ASP	331	126.665	65.464	10.677	1.00 40.31	В	С

			(Continued)
•		FIG. 4-173	
ATOM 842 ATOM 843 ATOM 8443 ATOM 8443 ATOM 8444 ATOM 8445 ATOM 8445 ATOM 8446 ATOM 8453 ATOM 8453 ATOM 8453 ATOM 8453 ATOM 8453	9 OD2 ASP 33: 0 C ASP 33: 1 O ASP 33: 2 N GLU 33: 3 CA GLU 33: 4 CB GLU 33: 5 CG GLU 33: 6 CD GLU 33: 7 OE1 GLU 33: 8 OE2 GLU 33: 9 C GLU 33: 9 C GLU 33: 1 N SER 33: 1 N SER 33: 2 CA SER 33: 3 CB SER 33: 4 OG SER 33: 5 C SER 33: 6 O SER 33: 7 N SER 33: 8 CA SER 33: 9 C SER 33:	127. 770       65. 966       10. 967       1. 00 40. 07         126. 355       67. 395       13. 062       1. 00 41. 15         125. 641       68. 126       12. 380       1. 00 40. 39         127. 358       67. 852       13. 802       1. 00 44. 16         127. 690       69. 271       13. 879       1. 00 47. 17         129. 001       69. 457       14. 646       1. 00 48. 80         129. 367       70. 901       14. 922       1. 00 51. 70         130. 451       71. 028       15. 979       1. 00 54. 56         130. 203       70. 623       17. 136       1. 00 55. 51         131. 552       71. 528       15. 658       1. 00 56. 11         127. 791       69. 941       12. 517       1. 00 47. 83         127. 518       71. 130       12. 383       1. 00 44. 8. 69         128. 179       69. 175       11. 505       1. 00 48. 69         128. 312       69. 715       10. 161       1. 00 49. 93         129. 246       68. 835       9. 327       1. 00 50. 95         130. 521       68. 723       9. 943       1. 00 50. 44         126. 957       69. 809       9. 483       1. 00 50. 21         124. 993       68	(Continued)  B O B O B O B C B O B C B C B C B C B C B C B C B C B C B C
ATOM 8451 ATOM 8452 ATOM 8453 ATOM 8454 ATOM 8455 ATOM 8456 ATOM 8457 ATOM 8457 ATOM 8459 ATOM 8461 ATOM 8461 ATOM 8463 ATOM 8463 ATOM 8464 ATOM 8466 ATOM 8467 ATOM 8468 ATOM 8469	C SER 334 O SER 334 N GLY 335 CA GLY 335 O GLY 335 N ARG 336 CA ARG 336 CA ARG 336 CB ARG 336 CB ARG 336 CD ARG 336 CD ARG 336 CZ ARG 336 NE ARG 336 NH1 ARG 336 NH2 ARG 336 NH1 ARG 336 NH2 ARG 336 N TRP 337 CA TRP 337	123. 934       69. 288       9. 536       1. 00 47. 42         122. 917       69. 742       9. 021       1. 00 48. 45         124. 177       69. 353       10. 840       1. 00 45. 55         123. 219       69. 965       11. 738       1. 00 42. 54         122. 081       69. 007       12. 033       1. 00 40. 97         121. 179       69. 318       12. 807       1. 00 40. 87         122. 117       67. 834       11. 409       1. 00 38. 61         121. 076       66. 843       11. 622       1. 00 37. 65         120. 725       66. 143       10. 306       1. 00 39. 07         120. 460       67. 099       9. 151       1. 00 41. 95         119. 339       66. 597       8. 248       1. 00 45. 61         118. 019       67. 002       8. 729       1. 00 48. 18         117. 522       68. 233       8. 613       1. 00 49. 86         118. 229       69. 194       8. 025       1. 00 50. 56         121. 524       65. 817       12. 654       1. 00 35. 64         122. 629       65. 900       13. 181       1. 00 35. 91         120. 649       64. 865       12. 955       1. 00 30. 08	B C B C B C B C B C B C B C B C B C B C
ATOM 8470 ATOM 8471 ATOM 8472 ATOM 8473 ATOM 8474 ATOM 8475 ATOM 8476	CB TRP 337 CG TRP 337 CD2 TRP 337 CE2 TRP 337 CE3 TRP 337 CD1 TRP 337 NE1 TRP 337	119. 922       63. 793       15. 053       1. 00 24. 67         119. 993       64. 979       15. 954       1. 00 20. 03         120. 670       65. 059       17. 214       1. 00 17. 75         120. 550       66. 390       17. 671       1. 00 17. 16         121. 374       64. 137       17. 997       1. 00 15. 36         119. 498       66. 224       15. 709       1. 00 19. 73	B C B C B C B C B C B C B C B C B C

					FIC	. 4 -	174			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8477 8478 8479 8480 8481 8482 8483 8484 8485 8486 8487 8488 8490 8491 8492 8493 8494 8495 8496 8497 8498 8499 8500 8501 8502 8504 8505 8506 8507	CZ3 CH2 CC O N CA CB CG OD1 ND2 C O N CA CB CC O CB SG N CA CB CD1 CD2 C O N CA CB CC CD1 CC	ASN ASN CYS CYS CYS CYS CYS LEU	337 337 337 337 338 338 338 338 338 338	121. 110 121. 932 121. 798 120. 940 119. 983 122. 003 122. 079 123. 240 122. 957 123. 595 121. 984 122. 216 123. 009 121. 419 121. 459 121. 924 121. 135 120. 071 118. 997 123. 211 123. 798 125. 303 126. 163 127. 500 126. 352 123. 152 123. 061 122. 706 122. 093 121. 981	66. 825 64. 567 65. 900 62. 487 62. 167 61. 712 60. 426 60. 416 61. 271 62. 306 60. 845 59. 294 59. 364 58. 251 57. 104 55. 913 55. 296 56. 829 58. 291 55. 604 54. 491 54. 413 55. 530 55. 633 55. 257 53. 151 52. 752 52. 457 51. 152 50. 423	18. 875 19. 196 19. 622 13. 188 12. 482 13. 347 12. 691 11. 698 10. 471 10. 251 9. 669 13. 693 14. 631 13. 499 14. 385 13. 564 12. 848 14. 961 15. 160 13. 665 12. 933 13. 218 12. 609 13. 322 11. 132 13. 259 14. 418 12. 220 12. 387 11. 047	1. 00 18. 08 1. 00 15. 24 1. 00 16. 71 1. 00 31. 57 1. 00 32. 12 1. 00 33. 02 1. 00 34. 88 1. 00 38. 68 1. 00 38. 68 1. 00 38. 66 1. 00 33. 12 1. 00 33. 60 1. 00 34. 06 1. 00 34. 06 1. 00 34. 05 1. 00 34. 96 1. 00 37. 83 1. 00 32. 80 1. 00 34. 61 1. 00 33. 83 1. 00 34. 61 1. 00 34. 61 1. 00 34. 61 1. 00 34. 65 1. 00 34. 65 1. 00 34. 65 1. 00 35. 87 1. 00 36. 86	B B B B B B B B B B B B B B B B B B B	C C C C C O N C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM	8509 8510	CG1 CG2 C	VAL VAL VAL VAL	341 341 341 341	121.532 122.957	49. 256 51. 391 50. 305 49. 872	11. 175 9. 968 13. 314 14. 366	1.00 37.20 1.00 38.15 1.00 36.74 1.00 39.77	B B B	C C C
ATOM ATOM ATOM ATOM ATOM	8512 8513 8514 8515	N CA CB C	ALA ALA ALA ALA ALA	342 342 342 342 342	124. 200 125. 134 126. 546 125. 095 125. 698	50. 073 49. 283 49. 482 49. 609 48. 897	12. 913 13. 704 13. 178 15. 194 16. 001	1.00 35.94 1.00 34.75 1.00 34.41 1.00 34.74 1.00 36.76	B B B B	N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8517 8518 8519 8520 8521 8522 8523 8524	CB CG CD NE CZ NH1 NH2	ARG ARG ARG ARG ARG ARG ARG ARG ARG	343 343 343 343 343 343 343 343 343	124. 411 124. 303 124. 611 126. 063 126. 345 127. 775 128. 301 127. 516 129. 615	50. 688 51. 074 52. 562 52. 922 54. 396 54. 692 55. 885 56. 907 56. 052 50. 751	15. 561 16. 961 17. 120 16. 844 17. 131 17. 108 17. 374 17. 680 17. 352	1.00 32.52 1.00 30.81 1.00 32.62 1.00 34.14 1.00 33.56 1.00 34.14 1.00 33.88 1.00 33.78 1.00 29.28	B B B B B B B	N C C C C N C N C N

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								(Continued)
				FIG.	4 - 1	7 5		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8526 8527 8528 8529 8530 8531 8532 8533 8534 8535 8536	O AR N GL CA GL CB GL CC GL OE1 GL NE2 GL O GL N HI	.N 344 .N 344 .N 344 .N 344 .N 344 .N 344 .N 344 .N 344 .N 344 .N 345	122. 586 5 122. 121 5 120. 786 4 119. 944 4 118. 980 5 118. 091 4 117. 567 4 117. 905 5 120. 853 4 121. 655 4 120. 008 4	51. 143 18 50. 026 16 19. 625 17 19. 238 15 50. 296 15 19. 802 14 18. 685 14 50. 632 13 18. 431 18 17. 515 17 18. 436 19	. 650	28. 05 28. 26 26. 68 30. 39 31. 50 31. 52 32. 84 28. 55 28. 32 28. 34	B
ATOM ATOM ATOM	8537 8538 8539	CA HI CB HI CG HI	S 345 S 345	120.514 4 121.973 4	17. 753 21. 18. 079 21.	452 1.00 443 1.00	28. 88 I 27. 88 I	B C B C
ATOM ATOM ATOM ATOM	8540 8541 8542 8543	CD2 HI ND1 HI CE1 HI NE2 HI	S 345 S 345	122.449 4 123.769 4 124.166 4	19. 361 21. 19. 337 21. 18. 086 21.	270 1.00 234 1.00 381 1.00	28. 37 I 28. 14 I	B C B N B C B N
ATOM ATOM ATOM ATOM	8544 8545 8546 8547	C HI O HI N IL CA IL	S 345 E 346	117.659 4 118.396 4	7. 508 20. 5. 538 19.	625 1.00 849 1.00	30. 01 I 26. 83 I	B C B O B N B C
ATOM ATOM ATOM	8548 8549 8550	CB IL CG2 IL CG1 IL	E 346 E 346 E 346	116.977 4 115.655 4 117.102 4	3. 842 18. 3. 114 18. 4. 517 17.	791 1.00 919 1.00 422 1.00	25. 56 H 26. 17 H 26. 62 H	B C B C B C
ATOM ATOM ATOM ATOM	8551 8552 8553 8554	CD1 IL C IL O IL N GL	E 346 E 346	116.854 4 117.736 4	4. 218 21. 3. 558 21.	228 1.00 776 1.00	26.11 H 25.75 H	B C B C B O B N
ATOM ATOM ATOM	8555 8556 8557	CA GL CB GL CG GL	U 347 U 347 U 347	115.260 4 115.226 4	3. 767 22. 4. 777 24. 4. 118 25.	994 1.00 134 1.00 505 1.00	25. 82 H 25. 51 H 28. 20 H	B C B C B C
ATOM ATOM ATOM ATOM	8558 8559 8560 8561	CD GL OE1 GL OE2 GL C GL	U 347 U 347	115.667 4 114.415 4	6. 208 26. 4. 736 27.	592 1.00 628 1.00	29.18 H 32.76 H	B C B 0 B C
ATOM ATOM ATOM	8562 8563 8564	O GL N ME CA ME	U 347 T 348 T 348	112.919 4 113.770 4 112.492 4	3. 889 22. 1. 858 22. 1. 181 22.	495 1.00 957 1.00 807 1.00	26. 00 E 26. 58 E 27. 90 E	B O B N B C
ATOM ATOM ATOM ATOM ATOM	8565 8566 8567 8568 8569	CB ME CG ME SD ME CE ME C ME	T 348 T 348 T 348 T 348	113. 466 4 113. 695 3 112. 733 3 112. 371 3	0. 132 20. 8. 420 21. 7. 597 19. 9. 980 23.	660 1.00 117 1.00 804 1.00 732 1.00	30. 41 F 34. 65 F 42. 21 F 38. 96 F 26. 60 F	B C B S B C B C
ATOM ATOM ATOM ATOM ATOM	8570 8571 8572 8573 8574	O ME N SE CA SE CB SE OG SE	R 349 R 349 R 349	111.135 3 110.843 3 109.989 3	89. 549 23. 88. 423 24. 88. 894 25.	950 1.00 812 1.00 997 1.00	26. 08 H 23. 99 H 21. 78 H 20. 79 H 21. 42 H	B N B C

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					FI	G. 4	-176	5		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8575 8576 8577 8578 8579 8580 8581 8582 8583 8584 8585 8586	C O N CA CB	THR THR THR THR THR THR	349 349 350 350 350 350 350 351 351	110. 084 109. 274 110. 351 109. 654 110. 603 111. 310 111. 583 108. 561 107. 732 108. 564 107. 601 108. 332	4 37. 387 4 37. 739 36. 112 4 35. 033 8 33. 882 9 34. 483 9 34. 453 33. 650 34. 871 34. 366 33. 796	24. 005 23. 154 24. 264 23. 571 23. 214 24. 391 22. 152 24. 475 24. 035 25. 737 26. 703 27. 932	1.00 21.88 1.00 23.74 1.00 21.76 1.00 23.08 1.00 22.77 1.00 25.37 1.00 22.93 1.00 22.93 1.00 20.70 1.00 22.30 1.00 22.35 1.00 23.36	B B B B B B B B	C O N C C C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8587 8588 8589 8590 8591 8592 8593 8594 8595 8596	OG1 CG2 C O N CA C O N CA		351 351 351 352 352 352 352 353 353	108. 989 109. 378 106. 575 105. 562 106. 839 105. 894 106. 633 105. 913 106. 156		28. 635 27. 493 27. 171 27. 760 26. 918 27. 325 26. 672 25. 531 27. 397 26. 907	1.00 25.67 1.00 22.26 1.00 21.07 1.00 20.87 1.00 19.83 1.00 19.36 1.00 18.63 1.00 20.78 1.00 17.51 1.00 15.30	B B B B B B	O C C O N C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8599 8600 8601 8602 8603 8604 8605	CE3 CD1 NE1 CZ2 CZ3	TRP TRP TRP TRP TRP TRP	353 353 353 353 353 353 353 353	105. 195 105. 165 104. 479 104. 739 103. 671 105. 798 105. 546 104. 217 103. 149	42. 451 42. 366 41. 387 41. 684 40. 288 43. 195 42. 791 40. 921 39. 524	27. 587 29. 084 29. 877 31. 233 29. 574 29. 966 31. 265 32. 281 30. 625	1. 00 13. 08 1. 00 9. 17 1. 00 7. 79 1. 00 8. 17 1. 00 10. 72 1. 00 11. 19 1. 00 10. 10 1. 00 10. 66 1. 00 10. 40	B B B B B B B	C C C C C C N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8607 8608 8609 8610 8611 8612 8613 8614	CG2 C	TRP TRP VAL VAL VAL VAL VAL VAL	353 353 354 354 354 354 354 354	103. 426 107. 594 108. 247 108. 092 109. 464 110. 135 111. 506 110. 284 109. 486	39. 848 41. 796 40. 999 42. 946 43. 338 44. 096 44. 646 43. 163 44. 248	31. 958 27. 264 27. 931 26. 819 27. 140 25. 960 26. 400 24. 751 28. 368	1.00 9.81 1.00 15.80 1.00 16.59 1.00 13.84 1.00 13.65 1.00 16.06 1.00 12.56 1.00 12.49 1.00 13.83	B B B B B B B	C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8616 18 8617 (8618 (8619 (8620 18621 (8622 (6821 18622	C O N CA CB	VAL GLY GLY GLY GLY ARG ARG ARG ARG	354 355 355 355 356 356 356 356	108. 716 110. 373 110. 467 109. 333 108. 347 109. 456 108. 404 108. 856 110. 001	45. 197 43. 957 44. 769 44. 554 43. 877 45. 126 44. 953 45. 494 44. 668	28. 456 29. 313 30. 519 31. 513 31. 206 32. 706 33. 701 35. 066 35. 667	1. 00 13. 93 1. 00 14. 87 1. 00 16. 09 1. 00 16. 34 1. 00 18. 25 1. 00 15. 16 1. 00 16. 32 1. 00 14. 18 1. 00 13. 44	B B B B B B	0 N C C O N C C

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						•				(Continued)
					FIC	G. 4-	177			(Continued)
ATOM	8624	CD	ARG	356	110.169	44.878	37. 151	1.00 14.42	В	С
ATOM	8625	NE	ARG	356	111.546	45. 211	37. 511	1.00 18.65	В	N
ATOM	8626	CZ	ARG	356	112.457	44. 341	37. 935	1.00 20.17	В	С
ATOM	8627	NH1		356	112.156	43. 055	38.065	1.00 22.71	В	N
ATOM	8628		ARG	356	113.674		38. 242	1.00 18.93	В	N
ATOM	8629	C	ARG	356	107.111	45. 607	33. 209	1.00 16.01	В	С
ATOM	8630	0	ARG	356	106. 100	44. 924	33.066	1.00 16.29	В	0
ATOM	8631	N	PHE	357	107.140	46. 911	32.945	1.00 15.89	В	N
ATOM	8632	CA	PHE	357	105.967	47.603	32.402	1.00 16.40	В	C
ATOM	8633	CB	PHE	357	105.418	48.660	33. 366	1.00 11.21	В	C
ATOM	8634	CG	PHE	357	104. 753	48.083	34.573	1.00 8.48	В	C
ATOM	8635		PHE	357	105.467	47.878	35. 748	1.00 5.58	В	C
ATOM	8636		PHE	357	103. 407	47. 711	34. 531	1.00 8.57	В	C
ATOM	8637		PHE	357	104.846	47. 309	36.867	1.00  5.98	В	C
ATOM	8638		PHE	357	102.777	47. 136	35. 648	1.00 4.59	В	C C
ATOM	8639	CZ	PHE	357	103.498	46.937	36.812	1.00 3.60	В	C
ATOM	8640	C	PHE	357	106. 344	48. 259	31.076	1.00 18.69	В	C
ATOM	8641	0	PHE	357	105. 476	48.638	30. 287	1.00 21.57	В	0
ATOM	8642	N	ARG	358	107.648	48. 377	30.840	1.00 19.12	В	N
ATOM	8643	CA	ARG	358	108. 188	48. 953	29.612	1.00 19.47	В	C
ATOM	8644	CB	ARG	358	107.826	50.439	29. 499	1.00 19.02	В	C
ATOM	8645	CG	ARG	358	108.451	51.346	30. 559	1.00 19.99	В	C
ATOM	8646	CD	ARG	358	108.074	52. 820	30.338	1.00 22.48	В	C
ATOM	8647	NE	ARG	358	108.633	53. 708	31.362	1.00 24.20	В	N
ATOM	8648	CZ	ARG	358	109. 204	54. 890	31.117	1.00 24.69	В	C
ATOM	8649		ARG	358	109. 304	55. 358	29.875	1.00 21.14	В	N
ATOM	8650		ARG	358	109.696	55.603	32. 121	1.00 24.33	В	N
ATOM	8651	C	ARG	358	109. 707	48. 784	29.646	1.00 20.57	В	C
ATOM	8652	0	ARG	358	110. 302	48. 704	30. 722	1.00 22.16	В	0
ATOM	8653	N	PRO	359	110.355	48. 723	28. 473	1.00 20.23	В	Ŋ
ATOM	8654	CD	PRO	359	109. 783	48. 894	27. 124	1.00 20.61	В	C
ATOM	8655	CA	PRO	359	111.816	48. 564	28. 411	1.00 20.48	В	C
ATOM	8656	CB	PRO	359	112. 137	48. 916	26.959	1.00 19.85	В	Č
ATOM	8657	CG	PRO	359	110.919	48. 431	26. 229	1.00 21.21	В	C
ATOM	8658	C	PRO	359	112.527	49. 494	29. 402	1.00 20.23	В	C
ATOM	8659	0	PRO	359	112. 221	50. 683	29. 465	1.00 22.01	В	0
ATOM	8660	N	SER	360	113. 474	48. 953	30. 163	1.00 19.33	В	N
ATOM	8661	CA	SER	360	114. 212	49. 725	31.160	1.00 18.75	В	C
ATOM	8662	CB	SER	360	115. 122	48. 806	31.968	1.00 20.74	В	C
ATOM	8663	OG	SER	360	116. 163	48. 286	31. 149	1.00 26.03	В	0
ATOM	8664	C	SER	360	115.060	50.841	30. 560	1.00 18.77	В	C
ATOM	8665	0 N	SER	360	115.410	50.806	29. 382	1.00 17.99	В	0
ATOM	8666	N CA	GLU	361	115.394	51.824	31.393	1.00 18.96	В	N
ATOM	8667	CA	GLU	361	116.199	52.970	30.978	1.00 18.11	В	C
ATOM	8668	CB	GLU	361	115. 982	54. 159	31.919	1.00 16.34	В	C
ATOM ATOM	8669 8670	CG CD	GLU	361	116.654	54.007	33. 269	1.00 21.67	В	C
ATOM	8671	OE1	GLU	361 361	115.743	53. 431	34. 342	1.00 27.42	В	C
ATOM	8672	0E1		361	115.067	52. 408	34.091	1.00 28.62	B B	0 0
VI Om	0012	0114	OTO	100	115.710	54.009	35. 453	1.00 31.11	D	U

					FIC	3. 4 -	178			(Continued)
ATOM	8673	C	GLU		117.674	52. 595	31.007	1.00 16.97	В	C
ATOM	8674	0	GLU		118. 118	51.870		1.00 16.23	В	0
ATOM ATOM	8675 8676	N CD	PRO PRO		118. 449	53.079		1.00 16.09	В	N
ATOM	8677	CA	PRO		118. 027 119. 879	53. 805 52. 772	28. 817 29. 985	1.00 13.66 1.00 15.32	B B	C
ATOM	8678	CB	PRO		120. 207	52. 916	28. 505	1.00 13.32	В	C C
ATOM	8679	CG	PRO	362	119. 362	54. 086	28. 121	1.00 13.19	В	Č
ATOM	8680	C	PRO	362	120.601	53. 806	30. 832	1.00 16.34	В	č
ATOM	8681	Ŏ	PRO	362	120.096	54. 911	31.021	1.00 17.05	В	ŏ
ATOM	8682	N	HIS	363	121.768	53. 448	31. 353	1.00 17.21	B	N
ATOM	8683	CA	HIS	363	122.550	54.374	32.164	1.00 18.58	В	C
ATOM	8684	CB	HIS	363	122.626	53.875	33.603	1.00 18.05	В	C
ATOM	8685	CG	HIS	363	121.324	53.965	34. 333	1.00 19.33	В	C
ATOM	8686		HIS	363	120. 156	53. 301	34. 158	1.00 19.36	В	C
ATOM	8687		HIS	363	121. 111	54. 851	35. 368	1.00 18.40	В	N
ATOM	8688		HIS	363	119.869	54. 731	35. 799	1.00 19.50	В	C
ATOM ATOM	8689		HIS	363	119. 267	53. 798	35. 081	1.00 22.85	В	N
ATOM	8690 8691	C 0	HIS HIS	363 363	123. 942	54. 499	31.551	1.00 19.40	В	C
ATOM	8692	N	PHE	364	124. 833 124. 110	53. 691 55. 520	31.806 30.723	1.00 19.73 1.00 19.14	В	0 N
ATOM	8693	CA	PHE	364	125. 371	55. 744	30. 723	1.00 19.14	B B	N C
ATOM	8694	CB	PHE	364	125. 188	56. 802	28. 944	1.00 13.23	В	C
ATOM	8695	CG	PHE	364	124. 368	56. 319	27. 777	1.00 15.99	В	Č
<b>ATOM</b>	8696		PHE	364	122. 975	56. 339	27. 826	1.00 12.83	B	č
<b>ATOM</b>	8697		PHE	364	124. 989	55.770	26.656	1.00 12.86	B	č
ATOM	8698		PHE	364	122. 216	55.816	26. 781	1.00 8.09	В	Č
ATOM	8699		PHE	364	124. 225	55. 242	25.607	1.00 10.87	В	C
ATOM	8700	CZ	PHE	364	122.837	55.268	25.679	1.00 7.69	В	C
ATOM	8701	C	PHE	364	126. 531	56. 127	30. 942	1.00 18.72	В	C
ATOM	8702	0 N	PHE	364	126. 341	56.638	32.050	1.00 17.88	В	0
ATOM ATOM	8703 8704	N CA	THR THR	365 365	127. 735	55.854	30. 448	1.00 18.23	В	N
ATOM	8705		THR	365	128. 967 130. 132	56.178	31.159	1.00 19.73	В	C
ATOM	8706		THR	365	130. 132	55. 288 55. 384	30. 697 29. 275	1.00 17.73 1.00 22.16	В	C .
ATOM	8707		THR	365	129. 890	53.848	31.069	1.00 22.10	B B	C .
ATOM	8708	Č	THR	365	129. 312	57.633	30.847	1.00 10.30	В	Č
ATOM	8709	0	THR	365	128.662	58. 260	30.015	1.00 20.68	В	ŏ
ATOM	8710	N	LEU	366	130.329	58.163	31.515	1.00 22.60	B	Ň
ATOM	8711	CA	LEU	366	130.740	59.544	31.304	1.00 25.75	В	Ċ
ATOM	8712	CB	LEU	366	132.053	59.831	32.039	1.00 29.32	В	C
ATOM	8713	CG	LEU	366	132. 172	59.429	33.516	1.00 34.01	В	C
ATOM	8714		LEU	366	132.442	57. 920	33. 631	1.00 33.57	В	C
ATOM	8715		LEU	366	133. 316	60.210	34. 162	1.00 34.78	В	C
ATOM ATOM	8716 8717	C 0	LEU LEU	366 366	130.909	59.900	29. 824	1.00 26.20	В	C
ATOM	8718	N	ASP	366 367	130. 317 131. 709	60. 871 59. 115	29. 349 29. 102	1.00 26.53	В	0 N
ATOM	8719	CA	ASP	367	131.709	59. 369	27. 682	1.00 24.26 1.00 23.63	B B	N C
ATOM	8720	CB	ASP	367	133. 232	58.636	27. 214	1.00 23.03	В	C
ATOM	8721	CG	ASP	367	133. 230	57. 158	27. 582	1.00 25.27	В	Č

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										(Continued)
					FIC	G. 4-	179			(O)IIIIIaca/
ATOM	8722	OD1	ASP	367	199 150	56. 515	27. 507	1.00 24.35	ם	0
ATOM ATOM	8723		ASP	367	132. 158 134. 311	56. 634	27. 935	1.00 24.33	B B	0 0
ATOM	8724	C	ASP	367	130. 810	58. 990	26.767	1.00 23.33	В	Č
ATOM	8725	Ö	ASP	367	130. 818	59. 261	25. 568	1.00 24.31	В	Õ
ATOM	8726	N	GLY	368	129. 795	58. 348	27. 330	1.00 20.91	В	N
ATOM	8727	CA	GLY	368	128. 646	57. 950	26. 547	1. 00 20. 31	В	Č
ATOM	8728	C	GLY	368	128. 912	56. 843	25. 550	1.00 19.81	B	č
ATOM	8729	ŏ	GLY	368	128. 059	56. 563	24.700	1.00 19.55	B	ŏ
ATOM	8730	Ň	ASN	369	130.073	56. 198	25. 643	1.00 19.20	В	Ň
ATOM	8731	CA	ASN	369	130. 398	55. 117	24. 706	1.00 19.60	B	Ċ
ATOM	8732	CB	ASN	369	131. 907	54. 986	24. 526	1.00 19.65	B	Č
ATOM	8733	CG	ASN	369	132.519	56. 217	23. 921	1.00 21.94	B	Č
ATOM	8734		ASN	369	132.005	56.757	22.945	1.00 25.32	В	0
ATOM	8735	ND2	ASN	369	133.628	56.671	24.489	1.00 23.16	В	N
ATOM	8736	C	ASN	369	129.828	53.760	25.090	1.00 18.53	В	C
ATOM	8737	0	ASN	369	129.770	52.861	24. 258	1.00 18.17	В	0
ATOM	8738	N	SER	370	129.420	53.608	26.346	1.00 18.61	В	N
ATOM	8739	CA	SER	370	128.847	52. 347	26.812	1.00 19.50	В	С
ATOM	8740	CB	SER	370	129. 934	51.447	27.430	1.00 20.45	В	С
ATOM	8741	0G	SER	370	130.577	52.057	28. 538	1.00 22.81	В	0
ATOM	8742	C	SER	370	127. 746	52.621	27.829	1.00 18.95	В	С
ATOM	8743	0	SER	370	127. 562	53. 759	28. 261	1.00 19.22	В	0
ATOM	8744	N	PHE	371	127.009	51. 583	28. 209	1.00 18.63	В	N
ATOM	8745	CA	PHE	371	125. 931	51.763	29.168	1.00 18.66	В	C
ATOM	8746		PHE	371	124. 762	52. 516	28.512	1.00 19.79	В	C
ATOM	8747		PHE	371	124. 088	51.756	27.398	1.00 16.47	В	C
ATOM	8748	CD1		371	124. 532	51.874	26.093	1.00 15.63	В	C
ATOM	8749	CD2		371	122. 991	50.940	27.660	1.00 17.78	В	C C C
ATOM	8750 8751	CE1 CE2		371	123.893	51.198	25.059	1.00 18.99	В	C
ATOM ATOM	8752	CZ	PHE	371 371	122.340 122.792	50. 255 50. 386	26. 631 25. 327	1.00 18.61	B B	C
ATOM	8753	C	PHE	371	125. 402	50. 473	29. 784	1.00 18.10 1.00 18.78	В	C
ATOM	8754	Ö	PHE	371	125. 402	49. 392	29. 104	1.00 18.78	В	0
ATOM	8755	N	TYR	372	124.814		30. 970	1.00 17.43	В	
ATOM	8756	CA	TYR	372	124. 314	49. 491	31. 703	1.00 13.00	В	N C
ATOM	8757	CB	TYR	372	124. 697	49. 527	33. 159	1.00 17.86	В	C
ATOM	8758		TYR	372	126. 199	49. 500	33. 290	1.00 17.83	В	č
ATOM	8759	CD1		372	126. 951	50.676	33. 201	1.00 19.52	В	č
ATOM	8760	CE1		372	128. 339	50.651	33. 257	1.00 18.29	B	č
ATOM	8761	CD2		372	126.878	48. 296	33. 441	1.00 17.45	B	č
ATOM	8762	CE2		372	128. 266	48. 257	33. 498	1.00 18.99	B	č
<b>ATOM</b>	8763	CZ	TYR	372	128.991	49.434	33. 405	1.00 18.83	B	č
ATOM	8764	OH	TYR	372	130. 364	49. 387	33. 454	1.00 19.89	B	Ŏ
ATOM	8765	С	TYR	372	122.727	49.558	31.620	1.00 18.38	В	Č
ATOM	8766	0	TYR	372	122.143	50.632	31.717	1.00 20.19	В	0
ATOM	8767	N	LYS	373	122.096	48.406	31.436	1.00 19.10	В	N
ATOM	8768		LYS	373	120.647	48.340	31.299	1.00 18.51	В	C
ATOM	8769		LYS	373	120. 285	48.376	29.809	1.00 17.90	В	C
ATOM	8770	CG	LYS	373	118.809	48. 581	29. 485	1.00 21.01	В	C

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ATOM 8771 CD LYS 373 118.593 48.627 27.969 1.00 21.40 B C ATOM 8772 CE LYS 373 117.248 49.238 27.563 1.00 21.67 B C ATOM 8773 NZ LYS 373 116.053 48.389 27.855 1.00 21.98 B N ATOM 8774 C LYS 373 120.128 47.049 31.928 1.00 18.77 B C ATOM 8775 0 LYS 373 120.128 47.049 31.928 1.00 18.77 B C ATOM 8775 0 LYS 373 120.695 45.980 31.712 1.00 18.48 B 0 ATOM 8776 N ILE 374 119.056 47.150 32.709 1.00 17.06 B N ATOM 8777 CA ILE 374 118.474 45.972 33.332 1.00 17.06 B N ATOM 8777 CA ILE 374 118.474 45.972 33.332 1.00 15.88 B C ATOM 8778 CB ILE 374 118.474 45.972 33.332 1.00 15.88 B C ATOM 8778 CG ILE 374 118.474 45.972 33.332 1.00 12.18 B C ATOM 8780 CG ILE 374 118.348 47.101 35.591 1.00 13.07 B C ATOM 8781 CDI ILE 374 117.517 47.505 36.809 1.00 13.03 B C ATOM 8782 C ILE 374 117.517 47.505 36.809 1.00 13.03 B C ATOM 8783 0 ILE 374 117.517 44.008 31.978 1.00 15.94 B C ATOM 8785 CA ILE 374 117.517 44.008 31.978 1.00 15.94 B C ATOM 8785 CA ILE 375 117.977 44.008 31.978 1.00 15.94 B C ATOM 8785 CA ILE 375 117.977 44.008 31.978 1.00 15.91 B C ATOM 8786 CB ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8787 CG ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8787 CG ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8780 CB ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8780 CB ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8780 CB ILE 375 118.128 44.496 29.070 1.00 19.13 B C ATOM 8780 CB ILE 375 117.842 43.117 29.625 1.00 19.62 B C ATOM 8790 C ILE 375 118.984 42.129 28.373 1.00 23.06 B C ATOM 8790 C ILE 375 118.183 44.446.69 29.070 1.00 19.13 B C ATOM 8790 C ILE 375 117.735 41.356 32.443 1.00 20.03 B O ATOM 8790 C ILE 375 117.735 41.356 32.443 1.00 20.03 B O ATOM 8790 C ILE 375 117.735 41.356 32.443 1.00 20.03 B O ATOM 8790 C ILE 375 117.735 41.356 32.443 1.00 20.03 B O ATOM 8790 C ILE 375 117.735 41.356 32.443 1.00 20.03 B O ATOM 8790 C ILE 375 118.843 31.943 31.00 31.00 21.55 B C ATOM 8790 C ASN 377 119.438 36.891 32.302 1.00 23.06 B C ATOM 8800 C ASN 377 119.438 36.891 32.302 1.00 23.06 B C ATOM 8800 C ASN 377 119.438						FI.	2 1-	1 2 0			(Continued)
ATOM       8803       ND2       ASN       377       119.848       35.884       34.474       1.00       20.11       B       N         ATOM       8804       C       ASN       377       117.897       35.681       30.736       1.00       26.79       B       C         ATOM       8805       O       ASN       377       116.706       35.382       30.699       1.00       28.58       B       O         ATOM       8806       N       GLU       378       118.861       34.856       30.353       1.00       29.97       B       N         ATOM       8807       CA       GLU       378       118.608       33.504       29.871       1.00       33.15       B       C         ATOM       8808       CB       GLU       378       119.914       32.716       29.870       1.00       37.08       B       C         ATOM       8809       CG       GLU       378       120.695       32.870       31.181       1.00       43.78       B       C         ATOM       8810       CD       GLU       378       121.681       31.740       31.427       1.00       47.52       B       <	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8772 8773 8774 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8800 8801	CE NZ C O N CA CB CG2 CG1 CD1 C O N CA CB CG2 CG1 CD1 C O N CA CB CCB CCB CCB CCB CCB CCB CCB CCB C	LYS LYS LYS LYS ILE	373 373 373 374 374 374 374 374 374 375 375 375 375 375 375 376 376 376 376 376 376 377 377	118. 593 117. 248 116. 053 120. 128 120. 695 119. 056 118. 474 117. 557 116. 955 118. 348 117. 517 117. 618 116. 649 117. 977 117. 178 117. 842 118. 128 119. 128 119. 128 119. 128 119. 128 115. 705 114. 347 114. 026 116. 808 117. 236 117. 281 118. 358 119. 438 119. 010	48. 627 49. 238 48. 389 47. 049 45. 980 47. 150 45. 972 46. 339 45. 076 47. 101 47. 505 45. 244 45. 803 44. 008 43. 226 43. 117 44. 496 42. 298 42. 129 41. 815 41. 356 41. 128 39. 771 39. 318 38. 054 38. 899 39. 127 37. 914 37. 053 36. 891 35. 971	27. 969 27. 563 27. 855 31. 928 31. 712 32. 709 33. 332 34. 526 35. 130 35. 591 36. 809 32. 303 31. 795 31. 978 31. 033 29. 625 29. 070 29. 706 28. 373 31. 579 32. 443 31. 078 31. 516 31. 003 31. 539 30. 936 29. 807 31. 698 31. 218 32. 302 33. 444	1. 00 21. 67 1. 00 21. 98 1. 00 18. 77 1. 00 18. 48 1. 00 17. 06 1. 00 15. 88 1. 00 14. 58 1. 00 12. 18 1. 00 15. 07 1. 00 13. 03 1. 00 16. 94 1. 00 17. 41 1. 00 18. 50 1. 00 19. 71 1. 00 19. 62 1. 00 19. 13 1. 00 21. 23 1. 00 23. 06 1. 00 20. 44 1. 00 20. 03 1. 00 21. 14 1. 00 21. 55 1. 00 25. 40 1. 00 24. 67 1. 00 25. 07 1. 00 23. 49 1. 00 23. 86	B B B B B B B B B B B B B B B B B B B	C C N C O N C C C C C C C C C O N C C C C
ATOM 8817 CB GLU 379 117.549 31.806 34.256 1.00 34.46 B C ATOM 8818 CG GLU 379 117.845 30.323 34.412 1.00 39.45 B C	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8799 8800 8801 8802 8803 8804 8805 8806 8807 8808 8810 8811 8812 8813 8814 8815 8816 8817	CA CB CG OD1 ND2 C O N CA CB CCD OE1 OE2 C O N CA CB	ASN ASN ASN ASN ASN GLU GLU GLU GLU GLU GLU GLU GLU GLU GLU	377 377 377 377 377 377 378 378 378 378	118. 358 119. 438 119. 010 117. 951 119. 848 117. 897 116. 706 118. 861 118. 608 119. 914 120. 695 121. 681 121. 225 122. 906 117. 588 116. 685 117. 740 116. 831 117. 549	37. 053 36. 891 35. 971 35. 340 35. 884 35. 681 35. 382 34. 856 33. 504 32. 716 32. 870 31. 740 30. 613 31. 981 32. 760 32. 113 32. 842 32. 160 31. 806	31. 218 32. 302 33. 444 33. 397 34. 474 30. 736 30. 699 30. 353 29. 871 29. 870 31. 181 31. 427 31. 725 31. 321 30. 722 30. 192 32. 041 32. 953 34. 256	1. 00 25. 07 1. 00 23. 49 1. 00 23. 86 1. 00 23. 70 1. 00 20. 11 1. 00 26. 79 1. 00 28. 58 1. 00 29. 97 1. 00 33. 15 1. 00 37. 08 1. 00 43. 78 1. 00 46. 56 1. 00 47. 52 1. 00 47. 91 1. 00 33. 63 1. 00 35. 16 1. 00 32. 70 1. 00 34. 46	B B B B B B B B B B B B B B B B B B B	C C C C O N C C C C O N C C C C C C C C

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					FI	G. 4	181			(Continued)
ATOM ATOM ATOM ATOM ATOM	8820 8821 8822 8823 8824		I GLU GLU GLU GLU GLY	379 379 379	115. 800 116. 357 115. 588 114. 743 115. 473	28. 643 32. 972 32. 539		1.00 42.91 1.00 45.81 1.00 28.15 1.00 28.12 1.00 24.72	B B B B	0 0 C 0 N
ATOM ATOM ATOM ATOM	8825 8826 8827 8828	CA C O N	GLY GLY GLY TYR	380 380 380 381	114.304 114.335 113.302 115.507	34. 980 35. 891 36. 404	32. 886 34. 101 34. 514	1.00 22.38 1.00 21.23 1.00 21.76 1.00 20.24	B B B	C C O N
ATOM ATOM ATOM ATOM	8829 8830 8831 8832	CA CB CG CD1	TYR TYR TYR TYR	381 381 381 381	115.642 116.539 115.846 115.104	36. 963 36. 307 35. 194	35. 842 36. 884 37. 630 38. 781	1.00 19.52 1.00 20.98 1.00 23.80 1.00 23.87	B B B	C C C C
ATOM ATOM ATOM	8833 8834 8835 8836	CD2 CE2 CZ	TYR TYR TYR TYR	381 381 381 381	114. 435 115. 900 115. 232 114. 501	33. 876 32. 859 33. 161	39. 455 37. 171 37. 843 38. 986	1.00 22.94 1.00 22.81 1.00 22.55 1.00 24.14	В В В В	C C C C
ATOM ATOM ATOM ATOM ATOM	8837 8838 8839 8840 8841	OH C O N CA	TYR TYR TYR ARG ARG	381 381 381 382 382	113. 830 116. 237 117. 178 115. 689	32. 170 38. 292 38. 312 39. 399	39. 667 35. 374 34. 568 35. 871	1.00 25.04 1.00 19.14 1.00 18.95 1.00 15.40	B B B	0 C 0 N
ATOM ATOM ATOM ATOM	8842 8843 8844 8845	CB CG CD NE	ARG ARG ARG ARG	382 382 382 382 382	116.160 115.035 113.948 112.581 111.576	40. 715 41. 738 41. 478 42. 001 41. 337	35. 458 35. 622 34. 606 34. 993 34. 170	1.00 14.04 1.00 13.48 1.00 15.55 1.00 17.88 1.00 19.19	B B B B	C C C C N
ATOM ATOM ATOM ATOM	8846 8847 8848 8849	CZ NH1 NH2 C	ARG ARG ARG ARG	382 382 382 382	111. 438 112. 230 110. 534 117. 438	41. 515 42. 357 40. 810 41. 172	32. 859 32. 203 32. 190 36. 140	1.00 21.25 1.00 18.86 1.00 23.20 1.00 12.33	B B B B	C N N C
ATOM ATOM ATOM	8850 8851 8852 8853		ARG HIS HIS	382 383 383 383	117. 497 118. 474 119. 778 120. 714	40.516	35.777	1.00 9.83 1.00 11.97 1.00 12.81 1.00 12.29	B B B	O N C C
ATOM ATOM ATOM ATOM ATOM	8854 8855 8856 8857 8858	ND1 CE1	HIS HIS HIS HIS	383 383 383 383 383	120. 377 119. 726 120. 670 120. 212 119. 635	39. 496 38. 313 39. 675 38. 643 37. 803	36. 813 36. 721 38. 148 38. 834 37. 993	1.00 13.83 1.00 12.69 1.00 13.84 1.00 16.23	B B B	C C N C
ATOM ATOM ATOM ATOM	8859 8860 8861 8862	C O N	HIS HIS ILE ILE	383 383 384 384	120. 351	42. 830 43. 207 43. 354 44. 444	34. 949 33. 913 35. 412	1.00 14.04 1.00 14.10 1.00 15.53 1.00 13.75 1.00 15.78	B B B B	N C O N C
ATOM ATOM ATOM	8863 8864 8865 8866	CB CG2 CG1 CD1	ILE ILE ILE ILE	384 384 384 384	122. 996 123. 765 122. 071 122. 791	45. 223 46. 338 45. 767 46. 194	35. 782 35. 103 36. 871 38. 129	1.00 14.50 1.00 14.15 1.00 12.97 1.00 14.46	В В В В	C C C
ATOM ATOM	8867 8868	0 0	ILE ILE	384 384	123. 082 123. 884	43. 925 43. 014	33. 645 33. 874	1.00 18.38 1.00 20.02	B B	C 0

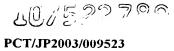
			F I G. 4	- 182			(Continued)
ATOM 8869 ATOM 8877 ATOM 8887 ATOM 8881 ATOM 8881 ATOM 8882 ATOM 8883 ATOM 8883 ATOM 8885 ATOM 8887 ATOM 8887 ATOM 8887 ATOM 8887 ATOM 8887 ATOM 8890 ATOM 8891 ATOM 8891 ATOM 8891 ATOM 8893 ATOM 8894 ATOM 8893 ATOM 8894 ATOM 8896 ATOM 8900 ATOM 8901 ATOM 8901 ATOM 8903 ATOM 8906 ATOM 8907 ATOM 8908	CA CYS C CYS	385 1 385 1 385 1 385 1 385 1 385 1 386 1 386 1 386 1 386 1 386 1 386 1 386 1 386 1 387 12 388 13 388 13 388 13 388 13 388 13 388 13 388 13 388 13 388 13 388 12 389 126 389 126 389 126 389 126 389 126 389 126	122. 956       44. 48         123. 812       44. 06         124. 628       45. 26         124. 115       46. 37         122. 980       43. 47         123. 868       42. 15         125. 908       45. 04         126. 795       46. 11         128. 222       45. 849         129. 224       46. 938         430. 557       48. 276         29. 798       49. 274         31. 127       48. 925         32. 082       49. 894         26. 765       46. 116         26. 573       47. 291         26. 573       47. 291         26. 520       47. 418         25. 161       47. 939         24. 014       47. 000         23. 409       46. 373         24. 014       47. 000         23. 449       46. 373         24. 014       47. 000         23. 499       46. 373         24. 014       47. 000         23. 499       48. 48         27. 552       48. 408         27. 552       48. 408         27. 859       49. 413         28. 994       48. 185 <t< td=""><td>5 32.446 1. 3 31.340 1. 5 30.868 1. 6 30.775 1. 7 30.178 1. 2 9.269 1. 7 30.595 1. 7 30.138 1. 7 30.615 1. 7 30.049 1. 7 30.079 1. 7 30.079 1. 7 30.032 1. 7 29.797 1. 7 29.797 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 20.684 1. 7 25.258 1. 7 26.347 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.706 1. 7 26.706 1. 7 27.777 1. 7 26.706 1. 7 27.777 1. 7 28.791 1. 7 29.791 1. 7 29.791 1. 7 20.79</td><td></td><td>888888888888888888888888888888888888888</td><td>N C C O C S N C C C C C C C C C O C O N C C C C C C</td></t<>	5 32.446 1. 3 31.340 1. 5 30.868 1. 6 30.775 1. 7 30.178 1. 2 9.269 1. 7 30.595 1. 7 30.138 1. 7 30.615 1. 7 30.049 1. 7 30.079 1. 7 30.079 1. 7 30.032 1. 7 29.797 1. 7 29.797 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 29.791 1. 7 20.684 1. 7 25.258 1. 7 26.347 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.684 1. 7 27.777 1. 7 26.706 1. 7 26.706 1. 7 27.777 1. 7 26.706 1. 7 27.777 1. 7 28.791 1. 7 29.791 1. 7 29.791 1. 7 20.79		888888888888888888888888888888888888888	N C C O C S N C C C C C C C C C O C O N C C C C C C
ATOM 8908 ATOM 8909 ATOM 8910	CA ILE CB ILE CG2 ILE CG1 ILE CD1 ILE C ILE O ILE N ASP CA ASP	389 123 389 127 389 126 389 128 389 128 389 128 389 126 389 126 390 128	28. 130     50. 755       27. 224     51. 256       27. 233     52. 796       6. 839     53. 374	22. 681 1. 00 21. 650 1. 00 21. 576 1. 00 22. 933 1. 00 21. 129 1. 00 21. 005 1. 00 20. 261 1. 00 19. 404 1. 00 20. 039 1. 00 18. 741 1. 00	0 30.33 0 32.95 0 29.60 0 27.56 0 27.72 0 26.00 0 37.72 0 40.02 0 41.52 0 43.97	B B B	N C C

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						(Continued)
					FIG. 4-183	(Continuou)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8918 8919 8920 8921 8922 8923 8924 8925 8926 8927 8928 8929 8930 8931		ASP ASP ASP ASP LYS LYS LYS LYS LYS LYS LYS LYS	390 390 390 390 391 391 391 391 391 391 391	FIG. 4 - 183  130.576 51.416 17.816 1.00 49.16 B 129.879 51.713 16.819 1.00 50.13 B 131.349 52.227 18.372 1.00 50.30 B 128.887 48.106 18.675 1.00 44.93 B 128.589 47.557 17.619 1.00 47.19 B 129.081 47.427 19.798 1.00 45.32 B 128.967 45.977 19.826 1.00 45.91 B 129.981 45.409 20.818 1.00 47.86 B 131.416 45.724 20.407 1.00 51.34 B 132.428 45.397 21.494 1.00 55.03 B 133.816 45.911 21.112 1.00 55.62 B 134.822 45.719 22.192 1.00 56.68 B 127.550 45.535 20.163 1.00 45.76 B 126.857 46.191 20.942 1.00 46.28	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM	8932 8933 8934 8935	N CA CB CG	LYS LYS LYS LYS	392 392 392 392	127. 125	N C C C
ATOM ATOM ATOM ATOM	8936 8937 8938 8939	CD CE NZ C	LYS LYS LYS LYS	392 392 392 392 392	124. 282 43. 970 16. 186 1. 00 50. 10 B 123. 533 45. 057 15. 436 1. 00 51. 49 B 124. 298 46. 338 15. 419 1. 00 52. 49 B 125. 529 42. 895 20. 886 1. 00 43. 84 B	C C N C
ATOM ATOM ATOM ATOM	8940 8941 8942 8943	O N CA CB	LYS ASP ASP ASP	392 393 393 393	124. 386	O N C C
ATOM ATOM ATOM ATOM	8944 8945 8946 8947	CG OD1	ASP ASP ASP	393 393 393 393	127.022       39.509       21.194       1.00 41.43       B         125.838       39.350       20.824       1.00 40.27       B         128.005       39.062       20.569       1.00 43.49       B         126.685       42.158       23.953       1.00 38.67       B	C O O C
ATOM ATOM ATOM	8948 8949 8950 8951	O N CA C	ASP CYS CYS CYS	393 394 394 394	127. 818       42. 588       24. 188       1. 00 39. 07       B         125. 678       42. 252       24. 816       1. 00 35. 47       B         125. 882       42. 870       26. 117       1. 00 32. 02       B         126. 374       41. 796       27. 069       1. 00 29. 62       B	O N C C
ATOM ATOM ATOM	8952 8953 8954 8955	O CB SG N	CYS CYS CYS THR	394 394 394 395	126. 248       40. 608       26. 787       1. 00       29. 41       B         124. 586       43. 491       26. 639       1. 00       31. 92       B         123. 354       42. 328       27. 301       1. 00       33. 67       B         126. 938       42. 215       28. 193       1. 00       26. 53       B         127. 462       127. 462       127. 462       127. 462       127. 462       127. 462       127. 462	O C S N
ATOM ATOM ATOM ATOM ATOM	8956 8957 8958 8959 8960	CA CB OG1 CG2 C	THR THR	395 395 395 395 395	127. 462       41. 279       29. 171       1. 00       23. 76       B         128. 964       41. 493       29. 358       1. 00       23. 30       B         129. 627       41. 265       28. 115       1. 00       25. 56       B         129. 518       40. 542       30. 397       1. 00       22. 48       B         126. 784       41. 448       30. 519       1. 00       22. 20       B	C C O C C
ATOM ATOM ATOM ATOM ATOM	8961 8962 8963 8964 8965		THR PHE PHE PHE PHE	395 396 396 396 396	126. 707       42. 556       31. 035       1. 00       23. 25       B         126. 300       40. 354       31. 095       1. 00       19. 02       B         125. 658       40. 444       32. 396       1. 00       18. 94       B         124. 794       39. 206       32. 652       1. 00       17. 62       B         123. 486       39. 225       31. 918       1. 00       19. 32       B	O N C C C
ATOM	8966	CD1	PHE	396	122. 477 40. 112 32. 290 1. 00 20. 73 B	C

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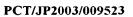
				٠	FI	G. 4	- 185			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9016 9017 9018 9019 9020 9021 9022 9023 9024 9025 9026 9027 9028 9029 9030 9031	CZ2 CZ3 CH2 C O N CA CB CG CD OE1 OE2 C	TRP TRP GLU GLU GLU GLU GLU GLU GLU GLU VAL VAL	402 402 402 402 402 403 403 403 403 403 403 403 404 404	121. 143 122. 180 120. 553 121. 874 116. 827 117. 439 116. 368 114. 990 114. 408 113. 288 112. 301 113. 397 116. 852 116. 785 117. 322 117. 800	36. 842 39. 003 40. 784 40. 303 38. 280 38. 022 39. 480 40. 554 40. 703 39. 396 39. 607 40. 306 39. 068 41. 938 42. 301 42. 716 44. 067	43. 130 42. 378 42. 151 42. 075 41. 273 40. 229 41. 534 40. 548 39. 899 39. 398 38. 391 38. 713 37. 271 40. 999 42. 171 40. 031 40. 270	1. 00 18. 41 1. 00 16. 56 1. 00 18. 56 1. 00 17. 33 1. 00 14. 94 1. 00 14. 00 1. 00 13. 41 1. 00 12. 05 1. 00 10. 24 1. 00 10. 20 1. 00 14. 00 1. 00 15. 50 1. 00 14. 63 1. 00 13. 29 1. 00 14. 74 1. 00 12. 89 1. 00 12. 91	B B B B B B B B B B B B B B B B B B B	N C C C C O N C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9033 9034 9035 9036 9037 9038 9040 9041 9042 9043 9044 9045 9046 9047	CB CG1 CG2 C O N CA CB CG2 CG1 CD1 C	VAL VAL VAL VAL ILE ILE ILE ILE ILE ILE ILE ILE ILE	404 404 404 404 405 405 405 405 405 405	118. 926 119. 374 120. 096 116. 607 116. 129 116. 122 114. 968 114. 453 113. 151 114. 256 113. 390 115. 293 114. 504 116. 455 116. 822 118. 253	44. 420 45. 859 43. 484 44. 994 45. 105 45. 653 46. 540 47. 763 45. 824 44. 705 47. 762 48. 156 48. 367 49. 521 49. 967	39. 265 39. 453 39. 459 40. 039 38. 918 41. 089 40. 951 42. 339 42. 183 43. 282 42. 732 40. 088 39. 226 40. 315 39. 521	1.00 11.91 1.00 13.92 1.00 8.31 1.00 14.23 1.00 16.13 1.00 12.56 1.00 12.56 1.00 12.98 1.00 7.46 1.00 14.03 1.00 14.39 1.00 14.39 1.00 14.30 1.00 12.80	B B B B B B B B B	C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9049 9050 9051 9052 9053 9054 9055 9056 9057 9058 9059 9060 9061 9062 9063 9064	O CA DCG2 DCG1 DCG1 DCG1 DCG1 DCG1 DCG1 DCG1 DCG1	GLY ILE	406 406 407 407 407 407 407 407 408 408 408 408 408 408	118. 233 118. 858 118. 806 120. 161 120. 797 122. 039 121. 163 121. 237 119. 236 120. 692 120. 552 120. 373 119. 290 117. 916 117. 135 117. 612	49. 708 50. 618 51. 144 51. 192 52. 077 49. 768 49. 545 52. 546 53. 361 52. 825 54. 105 53. 849 52. 815 53. 275 52. 429 54. 483	39. 708 40. 737 38. 691 38. 760 37. 361 37. 373 36. 936 35. 446 39. 343 38. 819 40. 431 41. 105 42. 601 42. 906 42. 456 41. 967 42. 598	1.00 13.75 1.00 16.89 1.00 14.84 1.00 13.37 1.00 11.30 1.00 11.29 1.00 9.37 1.00 15.02 1.00 14.39 1.00 16.63 1.00 18.23 1.00 21.53 1.00 27.87 1.00 30.29 1.00 29.06	B B B B B B B B B B B B B B B B B B B	C O N C C C C C C C O O O

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FIG. 4-186	(Continued)
ATOM 9065 C GLU 408 121.687 55.094 40.888 1.00 19.2 ATOM 9066 O GLU 408 121.468 56.306 40.924 1.00 21.0	
ATOM 9067 N ALA 409 122.899 54.589 40.678 1.00 18.3	
ATOM 9068 CA ALA 409 124.048 55.463 40.473 1.00 17.3	
ATOM 9069 CB ALA 409 124.533 56.012 41.816 1.00 16.7	
ATOM 9070 C ALA 409 125.189 54.756 39.755 1.00 17.4	
ATOM 9071 O ALA 409 125.323 53.536 39.834 1.00 15.9 ATOM 9072 N LEU 410 126.009 55.545 39.062 1.00 17.3	
ATOM 9072 N LEU 410 126.009 55.545 39.062 1.00 17.3 ATOM 9073 CA LEU 410 127.140 55.034 38.311 1.00 17.5	
ATOM 9074 CB LEU 410 126.722 54.817 36.857 1.00 16.6	
ATOM 9075 CG LEU 410 127. 767 54. 292 35. 862 1. 00 18. 1	2 B C
ATOM 9076 CD1 LEU 410 128. 278 52. 914 36. 302 1. 00 16. 1	
ATOM 9077 CD2 LEU 410 127.144 54.224 34.467 1.00 14.8	2 B C
ATOM 9078 C LEU 410 128.356 55.969 38.356 1.00 18.7	
ATOM 9079 0 LEU 410 128. 228 57. 175 38. 190 1. 00 20. 2	8 B 0
ATOM 9080 N THR 411 129.532 55.396 38.589 1.00 18.3	
ATOM 9081 CA THR 411 130. 786 56. 142 38. 617 1. 00 19. 2	
ATOM 9082 CB THR 411 131.360 56.286 40.060 1.00 18.8	
ATOM 9083 OG1 THR 411 131.869 55.024 40.514 1.00 17.79 ATOM 9084 CG2 THR 411 130.284 56.764 41.012 1.00 17.1	
ATOM 9084 CG2 THR 411 130. 284 56. 764 41. 012 1. 00 17. 1 ATOM 9085 C THR 411 131. 744 55. 293 37. 784 1. 00 20. 6	
ATOM 9086 0 THR 411 131. 374 54. 200 37. 357 1. 00 23. 60	
ATOM 9087 N SER 412 132.961 55.772 37.543 1.00 21.00	
ATOM 9088 CA SER 412 133.912 54.988 36.753 1.00 21.00	
ATOM 9089 CB SER 412 135.124 55.827 36.365 1.00 18.3	
ATOM 9090 OG SER 412 135.926 56.086 37.496 1.00 21.11	
ATOM 9091 C SER 412 134.387 53.778 37.548 1.00 22.0	7 B C
ATOM 9092 0 SER 412 134.961 52.843 36.995 1.00 23.13	
ATOM 9093 N ASP 413 134.144 53.790 38.850 1.00 22.17	
ATOM 9094 CA ASP 413 134.581 52.677 39.673 1.00 22.98	
ATOM 9095 CB ASP 413 135.339 53.198 40.895 1.00 25.67 ATOM 9096 CG ASP 413 136.731 53.697 40.548 1.00 28.49	· ·
1001	
ATOM 9097 OD1 ASP 413 137. 338 54. 395 41. 389 1. 00 31. 52 ATOM 9098 OD2 ASP 413 137. 228 53. 385 39. 444 1. 00 29. 95	_
ATOM 9099 C ASP 413 133.446 51.777 40.123 1.00 22.23	
ATOM 9100 0 ASP 413 133.624 50.565 40.248 1.00 22.67	
ATOM 9101 N TYR 414 132.274 52.362 40.351 1.00 21.41	
ATOM 9102 CA TYR 414 131.138 51.575 40.819 1.00 18.45	
ATOM 9103 CB TYR 414 131.002 51.708 42.329 1.00 15.46	
ATOM 9104 CG TYR 414 132.101 51.071 43.131 1.00 14.79	
ATOM 9105 CD1 TYR 414 132.118 49.699 43.357 1.00 14.59	Э В С
ATOM 9106 CE1 TYR 414 133.093 49.120 44.159 1.00 16.87	
ATOM 9107 CD2 TYR 414 133.093 51.850 43.718 1.00 14.91	
ATOM 9108 CE2 TYR 414 134.071 51.282 44.512 1.00 16.48 ATOM 9109 CZ TYR 414 134.066 49.921 44.733 1.00 16.25	
ATOM 9109 CZ TYR 414 134.066 49.921 44.733 1.00 16.25 ATOM 9110 OH TYR 414 135.030 49.369 45.541 1.00 19.68	
ATOM 9111 C TYR 414 129.787 51.898 40.214 1.00 17.91	
ATOM 9112 0 TYR 414 129.547 52.990 39.693 1.00 17.06	
ATOM 9113 N LEU 415 128.901 50.917 40.323 1.00 16.46	_ •



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					FI	G. 4	- 187	,		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9114 9115 9116 9117 9118 9119 9120 9121 9122 9123 9124 9125 9126 9127 9128	CB CCD CD C C O N CA CB CCD CCD	LEU LEU 1 LEU 2 LEU LEU LEU TYR TYR TYR	415 415 415 415	F I 6 127. 537 127. 297 125. 924 126. 044 124. 899 126. 674 126. 777 125. 840 124. 888 124. 879 126. 201 127. 031 128. 240 126. 618 127. 823	51. 027 50. 040 50. 107 49. 620 49. 295 50. 668 49. 566	39. 855 38. 714 38. 049	1.00 14.70	B B B B B B B B B B B B B B B B B B B	Continued)  C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9129 9130 9131 9132 9133 9134 9135 9136 9137 9138 9140 9141 9142	CZ OH C O N CA CB CG CD1 CE1 CD2 CE2 CZ	TYR	416 416 416 417 417 417 417 417 417 417 417	128. 625 129. 766 123. 604 123. 041 123. 054 121. 730 121. 840 122. 456 121. 656 122. 217 123. 835 124. 404 123. 588 124. 139	53. 938 54. 466 50. 905 51. 511 49. 878 49. 407 48. 361 47. 039 45. 983 44. 760 46. 843 45. 626 44. 590 43. 386	45. 147 45. 699 42. 208 41. 296 42. 848 42. 482 41. 365 41. 788 42. 226 42. 612 41. 748 42. 135 42. 565 42. 950	1. 00 15. 00 1. 00 14. 00 1. 00 16. 12 1. 00 16. 07 1. 00 16. 79 1. 00 18. 72 1. 00 20. 47 1. 00 21. 65 1. 00 22. 32 1. 00 21. 40 1. 00 21. 84 1. 00 22. 22 1. 00 22. 23	B B B B B B B B B B	C O C O N C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9143 9144 9145 9146 9147 9148 9149 9150 9151 9152 9153 9154 9155 9156 9157 9160 9161 9162	CG1	TYR TYR ILE ILE ILE ILE ILE ILE SER SER SER SER SER ASN ASN ASN	417 418 418 418 418 418 418 418 419 419 419 419 420 420 420 420	120. 973 121. 523 119. 695 118. 857 117. 677 116. 692 118. 210 117. 183 118. 337 118. 011 118. 272 117. 798 118. 969 119. 797 117. 155 117. 216 116. 536 115. 913 114. 448 114. 279	48. 824 48. 640 48. 551 47. 971 48. 906 48. 187 50. 148 51. 211 46. 651 46. 546 45. 642 44. 327 43. 480 43. 183 43. 632 44. 131 42. 481 41. 716 41. 406 40. 740	45. 326 46. 395 46. 067	1. 00 18. 97 1. 00 18. 94 1. 00 19. 05 1. 00 20. 55 1. 00 19. 77 1. 00 20. 86 1. 00 20. 46 1. 00 23. 81 1. 00 20. 17 1. 00 21. 74 1. 00 19. 61 1. 00 18. 91 1. 00 17. 21 1. 00 19. 02 1. 00 18. 48 1. 00 19. 32 1. 00 17. 64 1. 00 16. 73 1. 00 13. 22 1. 00 13. 67	B B B B B B B B B B B B B B B B B B B	C O N C C C C C C C C C C C C C C C C C

						(Continued)
					FIG. 4-188	(Continueu)
ATOM ATOM ATOM ATOM ATOM	9163 9164 9165 9166 9167		1 ASN 2 ASN ASN ASN	420 420 420 420	115. 220	0 N C
ATOM ATOM ATOM ATOM	9168 9169 9170 9171	CA CB CG CD	GLU GLU GLU GLU GLU	421 421 421 421 421	118. 018       40. 532       46. 543       1. 00       17. 15       B         118. 895       39. 393       46. 754       1. 00       19. 34       B         120. 291       39. 694       46. 195       1. 00       18. 78       B         121. 358       38. 747       46. 734       1. 00       20. 75       B         122. 661       38. 782       45. 951       1. 00       22. 48       B	N C C C C
ATOM ATOM ATOM ATOM	9172 9173 9174 9175	0E2 C 0	GLU GLU GLU	421 421 421 421	123. 169       39. 890       45. 661       1. 00       21. 18       B         123. 184       37. 689       45. 639       1. 00       22. 04       B         119. 028       38. 945       48. 218       1. 00       19. 80       B         118. 960       37. 756       48. 519       1. 00       20. 89       B	0 0 C 0
ATOM ATOM ATOM ATOM ATOM	9176 9177 9178 9179 9180	N CA CB CG CD1	TYR TYR TYR TYR TYR	422 422 422 422 422	119. 223       39. 897       49. 120       1. 00       19. 38       B         119. 401       39. 596       50. 530       1. 00       19. 16       B         119. 386       40. 895       51. 326       1. 00       19. 06       B         119. 881       40. 746       52. 741       1. 00       21. 59       B         121. 046       40. 023       53. 024       1. 00       19. 84       B	N C C C C
ATOM ATOM ATOM ATOM ATOM	9181 9182 9183 9184 9185	CD2	TYR TYR TYR TYR TYR	422 422 422 422 422	121. 510       39. 893       54. 314       1. 00 19. 73       B         119. 198       41. 334       53. 798       1. 00 21. 32       B         119. 658       41. 210       55. 097       1. 00 23. 82       B         120. 813       40. 488       55. 347       1. 00 23. 64       B	C C C C
ATOM ATOM ATOM ATOM	9186 9187 9188 9189	C O N CA	TYR TYR LYS LYS	422 422 423 423	118.401       38.600       51.114       1.00       20.84       B         117.187       38.779       51.012       1.00       22.40       B         118.933       37.546       51.732       1.00       21.52       B         118.130       36.486       52.340       1.00       21.53       B	O C O N C
ATOM ATOM ATOM ATOM ATOM	9190 9191 9192 9193 9194	CB CG CD CE NZ	LYS LYS LYS LYS LYS	423 423 423 423 423	117. 436       36. 995       53. 608       1. 00       22. 83       B         118. 393       37. 278       54. 751       1. 00       25. 85       B         117. 677       37. 707       56. 020       1. 00       27. 71       B         118. 692       38. 082       57. 098       1. 00       31. 46       B         118. 052       38. 548       58. 367       1. 00       31. 96       B	C C C C N
ATOM ATOM ATOM ATOM	9195 9196 9197 9198	C O N CA	LYS LYS GLY GLY	423 423 424 424	117. 097       35. 906       51. 378       1. 00       21. 44       B         116. 114       35. 293       51. 797       1. 00       22. 16       B         117. 331       36. 106       50. 086       1. 00       20. 50       B         116. 430       35. 595       49. 070       1. 00       20. 06       B	C O N C
ATOM ATOM ATOM ATOM ATOM	9199 9200 9201 9202 9203	C O N CA CB	GLY GLY MET MET MET	424 424 425 425 425	114. 969       35. 945       49. 274       1. 00       20. 45       B         114. 102       35. 120       49. 013       1. 00       21. 91       B         114. 695       37. 163       49. 739       1. 00       20. 34       B         113. 322       37. 627       49. 968       1. 00       18. 53       B         113. 234       38. 329       51. 317       1. 00       19. 68       B	C O N C
ATOM ATOM ATOM ATOM	9204 9205 9206 9207	CG SD CE C	MET MET MET MET	425 425 425 425	113. 756       37. 501       52. 469       1. 00       22. 38       B         113. 506       38. 352       54. 020       1. 00       24. 27       B         111. 741       38. 663       53. 907       1. 00       21. 26       B         112. 908       38. 604       48. 871       1. 00       16. 75       B	C C S C C
ATOM ATOM ATOM ATOM	9208 9209 9210 9211	O N CD CA	MET PRO PRO PRO	425 426 426 426	113. 405       39. 725       48. 819       1. 00 17. 33       B         111. 968       38. 206       47. 999       1. 00 16. 64       B         111. 173       36. 969       48. 017       1. 00 17. 29       B         111. 530       39. 089       46. 910       1. 00 15. 29       B	O N C C

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					FIG. 4-189	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9212 9213 9214 9215 9216 9217 9218 9219 9220 9221 9222 9223 9224 9225	CB CG C O N CA C O N CA C	PRO PRO PRO GLY GLY GLY GLY GLY GLY ARG ARG	426 426 426 427 427 427 427 428 428 428 428 429	FIG. 4 - 189  110.523 38.233 46.140 1.00 15.30 B 110.816 36.823 46.561 1.00 15.73 B 110.901 40.379 47.416 1.00 15.48 B 110.913 41.402 46.727 1.00 15.90 B 110.362 40.321 48.630 1.00 14.46 B 109.718 41.480 49.217 1.00 13.34 B 110.649 42.449 49.919 1.00 13.11 B 110.184 43.462 50.452 1.00 14.26 B 111.947 42.144 49.942 1.00 9.68 B 112.902 43.036 50.577 1.00 8.65 B 113.735 43.771 49.538 1.00 10.35 B 113.778 43.363 48.377 1.00 10.03 B 114.406 44.844 49.946 1.00 11.09 B 115.224 45.630 49.023 1.00 12.98	C C C O N C C C O N C C C C O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9226 9227 9228 9229 9230 9231 9232 9233 9234 9235 9236	CB CG CD NE CZ NH1 NH2 C O N CA	ARG ARG ARG ARG ARG ARG ARG ASN ASN	429 429 429 429 429 429 429 429 430 430	114. 349       46. 667       48. 314       1. 00 14. 68       B         113. 580       46. 084       47. 144       1. 00 18. 95       B         112. 423       46. 947       46. 701       1. 00 18. 69       B         111. 590       46. 279       45. 699       1. 00 19. 88       B         111. 184       45. 008       45. 769       1. 00 21. 09       B         111. 535       44. 227       46. 791       1. 00 17. 36       B         110. 390       44. 520       44. 825       1. 00 20. 65       B         116. 420       46. 328       49. 678       1. 00 13. 64       B         116. 291       46. 983       50. 707       1. 00 13. 96       B         117. 584       46. 198       49. 056       1. 00 12. 81       B         118. 784       46. 812       49. 585       1. 00 13. 48       B	C C N C N C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9237 9238 9239 9240 9241 9242 9243 9244 9245 9246 9247 9248	ND2 C O N CA CB CG CD1	ASN ASN ASN ASN LEU LEU LEU LEU LEU LEU	430 430 430 430 430 431 431 431 431	119. 605       45. 767       50. 344       1. 00 11. 94       B         118. 985       45. 411       51. 677       1. 00 12. 47       B         119. 104       46. 167       52. 652       1. 00 11. 56       B         118. 293       44. 277       51. 727       1. 00 7. 39       B         119. 644       47. 477       48. 528       1. 00 14. 50       B         119. 530       47. 189       47. 335       1. 00 14. 26       B         120. 504       48. 377       48. 992       1. 00 16. 18       B         121. 425       49. 107       48. 135       1. 00 17. 01       B         121. 709       50. 496       48. 713       1. 00 16. 67       B         122. 825       51. 279       48. 012       1. 00 18. 10       B         122. 501       51. 399       46. 528       1. 00 17. 30       B         122. 998       52. 651       48. 667       1. 00 14. 93       B	C C O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9249 9250 9251 9252 9253 9254 9255 9256 9257 9258 9259 9260	C O N CA CB CG CD1 CE1 CD2 CE2 CZ OH	LEU TYR	431 431 432 432 432 432 432 432 432 432 432 432	122. 729       48. 338       48. 022       1. 00 17. 39       B         123. 367       48. 018       49. 028       1. 00 19. 06       B         123. 112       48. 038       46. 789       1. 00 17. 62       B         124. 344       47. 317       46. 511       1. 00 18. 05       B         124. 061       45. 978       45. 826       1. 00 17. 24       B         123. 334       44. 944       46. 654       1. 00 18. 80       B         121. 962       45. 034       46. 883       1. 00 19. 62       B         121. 289       44. 049       47. 601       1. 00 19. 23       B         124. 015       43. 843       47. 169       1. 00 17. 63       B         123. 360       42. 862       47. 882       1. 00 18. 49       B         121. 996       42. 968       48. 099       1. 00 20. 13       B         121. 358       41. 994       48. 834       1. 00 21. 75       B	C O N C C C C C C C

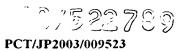
						(Continued)
					FIG. 4-190	(001101114104)
ATOM ATOM ATOM ATOM ATOM	9261 9262 9263 9264 9265	C O N CA CB	TYR TYR LYS LYS LYS	432 432 433 433 433	126. 474 47. 805 45. 486 1. 00 16. 13 127. 386 48. 460 44. 563 1. 00 14. 57 128. 237 49. 536 45. 251 1. 00 16. 46	3 0 3 N 3 C
ATOM ATOM ATOM ATOM	9266 9267 9268 9269	CG CD CE NZ	LYS LYS LYS LYS	433 433 433 433	129.297 49.022 46.215 1.00 16.27 E 130.239 50.146 46.606 1.00 16.51 E 131.190 49.723 47.712 1.00 16.69 E 132.101 50.834 48.104 1.00 17.27	3 C 3 C
ATOM ATOM ATOM ATOM	9270 9271 9272 9273	C O N CA	LYS LYS ILE ILE	433 433 434 434	128. 269       47. 343       44. 058       1.00       13. 68       B         128. 654       46. 454       44. 820       1.00       11. 44       B         128. 564       47. 364       42. 767       1.00       13. 85       B         129. 411       46. 331       42. 191       1.00       15. 56       B	8 0 8 N
ATOM ATOM ATOM	9274 9275 9276 9277	CG1 CD1	ILE ILE ILE	434 434 434	128. 645       45. 504       41. 124       1. 00 14. 45       B         128. 054       46. 429       40. 061       1. 00 11. 95       B         129. 580       44. 458       40. 518       1. 00 14. 14       B         128. 978       43. 676       39. 379       1. 00 14. 42       B	C C C
ATOM ATOM ATOM	9278 9279 9280 9281	C O N CA	ILE ILE GLN GLN	434 434 435 435	130. 646 46. 973 41. 573 1. 00 16. 13 B 130. 554 48. 003 40. 915 1. 00 17. 71 B 131. 804 46. 374 41. 809 1. 00 18. 33 B 133. 045 46. 907 41. 263 1. 00 20. 88 B	O N C
ATOM ATOM ATOM ATOM ATOM	9282 9283 9284 9285 9286	CB CG CD OE1	GLN GLN GLN GLN GLN	435 435 435 435 435	134. 253       46. 264       41. 956       1. 00       21. 76       B         135. 490       47. 145       41. 958       1. 00       24. 28       B         136. 715       46. 461       42. 547       1. 00       25. 69       B         136. 763       46. 154       43. 741       1. 00       26. 08       B         137. 713       46. 220       41. 705       1. 00       24. 68       B	C C O
ATOM ATOM ATOM ATOM	9287 9288 9289 9290	C O N CA	GLN GLN LEU LEU	435 435 436 436	137. 713       46. 220       41. 705       1. 00       24. 68       B         133. 068       46. 617       39. 767       1. 00       20. 60       B         132. 969       45. 465       39. 348       1. 00       20. 57       B         133. 200       47. 668       38. 965       1. 00       21. 54       B         133. 197       47. 527       37. 513       1. 00       23. 39       B	C O N
ATOM ATOM ATOM ATOM	9291 9292 9293 9294	CB CG CD1	LEU LEU LEU LEU	436 436 436 436	133. 050 48. 905 36. 880 1. 00 21. 46 B 131. 785 49. 596 37. 386 1. 00 19. 80 B 131. 748 51. 035 36. 920 1. 00 19. 31 B 130. 572 48. 831 36. 895 1. 00 18. 85 B	C C
ATOM ATOM ATOM ATOM	9295 9296 9297 9298	C O N CA	LEU LEU SER SER	436 436 437 437	134. 391  46. 790  36. 908  1. 00  25. 55  B  134. 294  46. 242  35. 810  1. 00  27. 46  B  135. 517  46. 775  37. 613  1. 00  26. 98  B  136. 690  46. 069  37. 119  1. 00  26. 89  B	C O N C
ATOM ATOM ATOM	9299 9300 9301 9302	CB OG C	SER SER SER SER	437 437 437 437	137. 967       46. 683       37. 689       1.00 26. 26       B         137. 940       46. 694       39. 102       1.00 31. 19       B         136. 593       44. 597       37. 507       1.00 27. 29       B         137. 152       43. 736       36. 832       1.00 29. 17       B	C 0 C 0
ATOM ATOM ATOM	9303 9304 9305 9306	N CA CB	ASP ASP ASP	438 438 438 438	135. 882       44. 310       38. 595       1. 00       26. 66       B         135. 704       42. 930       39. 049       1. 00       26. 32       B         136. 702       42. 588       40. 151       1. 00       28. 65       B         136. 622       41. 135       40. 571       1. 00       30. 81       B	N C C C
ATOM ATOM ATOM	9307 9308 9309	OD1 OD2 C		438 438 438	135.517 40.557 40.495 1.00 32.19 B 137.659 40.575 40.990 1.00 33.46 B 134.286 42.691 39.572 1.00 24.90 B	0 0 C

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						(Continued)
					FIG. 4-191	,
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9310 9311 9312 9313 9314 9315 9316 9317 9318 9319	CE1 CD2 CE2 CZ	ASP TYR TYR TYR TYR TYR TYR TYR TYR	439 439 439 439 439 439	133. 959       43. 060       40. 700       1. 00       22. 15       B         133. 461       42. 046       38. 753       1. 00       23. 79       B         132. 083       41. 780       39. 123       1. 00       23. 74       B         131. 301       41. 243       37. 924       1. 00       22. 94       B         131. 357       42. 125       36. 698       1. 00       22. 91       B         131. 420       43. 514       36. 814       1. 00       22. 44       B         131. 442       44. 329       35. 687       1. 00       22. 19       B         131. 322       41. 572       35. 416       1. 00       22. 08       B         131. 348       42. 379       34. 285       1. 00       21. 13       B         131. 405       43. 753       34. 430       1. 00       21. 92       B	O N C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9320 9321 9322 9323 9324 9325 9326 9327 9328 9329	OH C O N CA CB OG1 CG2 C		439 439 440 440 440 440 440 440 440	131. 410       44. 552       33. 314       1. 00 24. 24       B         131. 928       40. 823       40. 294       1. 00 24. 38       B         130. 882       40. 801       40. 933       1. 00 25. 27       B         132. 953       40. 030       40. 584       1. 00 24. 21       B         132. 858       39. 094       41. 699       1. 00 23. 35       B         134. 102       38. 196       41. 806       1. 00 23. 70       B         135. 221       38. 975       42. 250       1. 00 22. 70       B         134. 418       37. 568       40. 462       1. 00 23. 82       B         132. 712       39. 852       43. 014       1. 00 22. 79       B         132. 169       39. 328       43. 987       1. 00 21. 81       B	0 C O N C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9330 9331 9332 9333 9334 9335 9336 9337	N CA CB CG CD CE NZ C	LYS LYS LYS LYS LYS LYS LYS	441 441 441 441 441 441 441	133. 200       41. 087       43. 039       1. 00       22. 86       B         133. 123       41. 905       44. 243       1. 00       22. 90       B         134. 396       42. 741       44. 375       1. 00       25. 86       B         135. 620       41. 878       44. 682       1. 00       30. 20       B         136. 871       42. 702       44. 878       1. 00       34. 36       B         138. 053       41. 804       45. 201       1. 00       37. 32       B         139. 319       42. 577       45. 346       1. 00       40. 04       B         131. 881       42. 794       44. 329       1. 00       21. 89       B	N C C C C C N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9338 9339 9340 9341 9342 9343 9344 9345 9346		LYS VAL VAL VAL VAL VAL VAL THR	441 442 442 442 442 442 442 443	131. 828       43. 891       43. 768       1.00       21. 84       B         130. 880       42. 289       45. 039       1.00       19. 62       B         129. 624       42. 984       45. 242       1.00       17. 69       B         128. 458       42. 093       44. 799       1.00       17. 33       B         127. 123       42. 770       45. 119       1.00       15. 79       B         128. 586       41. 792       43. 306       1.00       11. 20       B         129. 502       43. 299       46. 733       1.00       20. 40       B         129. 742       42. 437       47. 572       1.00       22. 84       B         129. 129       44. 528       47. 066       1.00       20. 64       B	O N C C C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9347 9348 9349 9350 9351 9352 9353 9354 9355 9356 9357 9358	CA CB OG1 CG2 C O N CA C CB SG	THR THR	443 443 443 443 443 444 444 444 444 444	129. 015       44. 927       48. 461       1. 00 22. 17       B         130. 040       46. 035       48. 801       1. 00 24. 13       B         131. 370       45. 566       48. 546       1. 00 28. 90       B         129. 923       46. 442       50. 255       1. 00 22. 91       B         127. 641       45. 475       48. 819       1. 00 23. 06       B         127. 210       46. 483       48. 254       1. 00 26. 29       B         126. 948       44. 835       49. 754       1. 00 21. 88       B         125. 656       45. 368       50. 163       1. 00 22. 22       B         125. 963       46. 516       51. 115       1. 00 20. 79       B         126. 866       46. 411       51. 941       1. 00 19. 89       B         124. 801       44. 328       50. 878       1. 00 24. 50       B         123. 137       44. 986       51. 221       1. 00 27. 42       B	C C C C C C C C C C C C C C C C C C C

			FIC 4-109	(Continued)
			FIG. 4-192	
ATOM ATOM			125. 205 47. 602 51. 005 1. 00 20. 20	B N
ATOM			125. 442 48. 785 51. 824 1. 00 17. 71	B C
ATOM			125.651 49.988 50.899 1.00 15.76 126.714 49.756 49.812 1.00 15.86	B C
ATOM			126. 714 49. 756 49. 812 1. 00 15. 86 126. 930 51. 008 48. 970 1. 00 13. 93	B C B C
ATOM	9364 CD2 LE		128.007 49.333 50.480 1.00 12.34	B C
ATOM		U 445	124.333 49.099 52.814 1.00 19.64	B C
ATOM			124. 446 50. 036 53. 608 1. 00 20. 41	B 0
ATOM ATOM			123. 262 48. 314 52. 776 1. 00 21. 11	B N
ATOM	9368 CA SEI 9369 CB SEI		122. 131 48. 552 53. 656 1. 00 20. 24 120. 947 49. 077 52. 834 1. 00 20. 38	B C
ATOM	9370 OG SEI		100 555	B C
ATOM	9371 C SEI		101 500	B O B C
ATOM	9372 O SEI		101 005 45 404 55	B C B O
ATOM	9373 N CYS		122. 043 46. 141 53. 874 1. 00 21. 42	B N
MOTA	9374 CA CYS		121.667 44.875 54.495 1.00 23.05	B C
ATOM ATOM	9375 C CYS 9376 O CYS			B C
ATOM	9377 CB CYS			B 0
ATOM	9378 SG CYS		100 104 40 450 50 50	B C
ATOM	9379 N GLU		199 000 45 044 55	B S B N
ATOM	9380 CA GLU	448	100 004 44 040	B C
ATOM	9381 CB GLU		124. 805 44. 358 58. 061 1. 00 24. 37	B C
ATOM ATOM	9382 CG GLU		125. 060 43. 017 57. 395 1. 00 28. 24	B C
ATOM	9383 CD GLU 9384 OE1 GLU			ВС
ATOM	9385 OE2 GLU			B 0
ATOM	9386 C GLU	448	100 040 40 400 70	B 0
ATOM	9387 O GLU	448	199 450 40 101 50 015	B C B 0
ATOM	9388 N LEU	449	122.900 47.289 58.134 1.00 20.81	
ATOM	9389 CA LEU	449	122.733 48.516 58.899 1.00 20.59	
ATOM ATOM	9390 CB LEU 9391 CG LEU	449	122. 123 49. 592 58. 010 1. 00 18. 76 B	
ATOM	9391 CG LEU 9392 CD1 LEU	449 449	123. 019 50. 143 56. 909 1. 00 17. 31 B	_
ATOM	9393 CD2 LEU	449	194 100 50 000 55 505	
ATOM	9394 C LEU	449	124. 199 50. 868 57. 527 1. 00 16. 25 B 121. 853 48. 311 60. 144 1. 00 22. 20 B	
ATOM	9395 O LEU	449	122. 232 48. 674 61. 261 1. 00 22. 97 B	
ATOM	9396 N ASN	450	120. 677 47. 731 59. 937 1. 00 22. 75 B	
ATOM ATOM	9397 CA ASN 9398 CB ASN	450	119.729 47.462 61.011 1.00 21.80 B	C
ATOM	9398 CB ASN 9399 CG ASN	450 450	118. 958 48. 731 61. 344 1. 00 23. 73 B	C
ATOM	9400 OD1 ASN	450 450	118. 226 48. 632 62. 661 1. 00 26. 67 B 117. 678 47. 581 63. 004 1. 00 26. 78 B	
ATOM	9401 ND2 ASN	450	117. 678 47. 581 63. 004 1. 00 26. 78 B 118. 199 49. 733 63. 406 1. 00 26. 73 B	
ATOM	9402 C ASN	450	118.772 46.400 60.469 1.00 22.01 B	
ATOM	9403 0 ASN	450	117.649 46.701 60.072 1.00 21.48 B	
ATOM ATOM	9404 N PRO 9405 CD PRO	451	119. 215 45. 134 60. 442 1. 00 21. 65 B	N
ATOM	9405 CD PRO 9406 CA PRO	451 451	120.506 44.673 60.969 1.00 20.73 B	C
ATOM	9407 CB PRO	451 451	118. 430 44. 004 59. 941 1. 00 21. 39 B 119. 362 42. 817 60. 162 1. 00 19. 94 B	
	****	101	119.362 42.817 60.162 1.00 19.94 B	C



					म त	C 1.	193			(Continued)
ATOM ATOM ATOM ATOM	9408 9409 9410 9411	CG C O N	PRO PRO PRO GLU	451 451 451 452	120. 209 117. 035 116. 125 116. 850	43. 253 43. 774 43. 392 44. 003	61. 290 60. 509 59. 774 61. 800	1. 00 21. 78 1. 00 23. 49 1. 00 25. 06 1. 00 24. 25	B B B	C C O N
ATOM ATOM ATOM ATOM ATOM ATOM	9412 9413 9414 9415 9416 9417	CA CB CG CD OE1 OE2		452 452 452 452 452 452	115. 539 115. 650 116. 621 116. 666 117. 355 116. 019	43. 767 42. 720 42. 675	62. 394 63. 920 64. 455 65. 976 66. 521 66. 627	1.00 26.56 1.00 32.21 1.00 39.54 1.00 44.38 1.00 47.19 1.00 46.89	B B B B B	C C C C O
ATOM ATOM ATOM ATOM ATOM ATOM	9418 9419 9420 9421 9422 9423	C O N CA CB	GLU GLU ARG ARG ARG ARG	452 452 453 453 453 453	114. 543 113. 374 115. 010 114. 132 114. 539 113. 714	44. 867 44. 582 46. 101 47. 198 48. 463 49. 685	61. 968 61. 733 61. 848 61. 478 62. 234 61. 872	1.00 25.59 1.00 27.44 1.00 23.36 1.00 21.67 1.00 21.94 1.00 20.24	B B B B B	C O N C C
ATOM ATOM ATOM ATOM	9424 9425 9426 9427 9428	CD NE CZ NH1 NH2	ARG ARG ARG ARG ARG	453 453 453 453 453	114. 165 113. 364 113. 582 114. 579 112. 813	50. 878 52. 058 53. 245 53. 391 54. 280	62. 662 62. 375 62. 927 63. 791 62. 619	1.00 17.23 1.00 16.99 1.00 17.21 1.00 17.27 1.00 14.66	B B B B	C C N C N N
ATOM ATOM ATOM ATOM ATOM	9429 9430 9431 9432 9433 9434	C O N CA C	ARG ARG CYS CYS CYS CYS	453 453 454 454 454	114. 077 113. 024 115. 206 115. 293 115. 598 116. 698	47. 527 47. 910 47. 368 47. 715 46. 616 46. 074	59. 994 59. 477 59. 312 57. 903 56. 896 56. 865	1.00 21.78 1.00 20.58 1.00 21.64 1.00 19.87 1.00 19.70 1.00 21.81	B B B B	C O N C C O
ATOM ATOM ATOM ATOM ATOM ATOM	9435 9436 9437 9438 9439 9440	CB SG N CA CB CG	CYS CYS GLN GLN GLN GLN	454 454 455 455 455 455	116. 295 115. 666 114. 608 114. 692 113. 881 114. 425	48. 847 50. 300 46. 332 45. 305 44. 085 43. 413	57. 770 58. 650 56. 051 55. 015 55. 457 56. 711	1.00 19.47 1.00 18.98 1.00 19.11 1.00 14.77 1.00 13.34 1.00 12.92	B B B B	C S N C C
ATOM ATOM ATOM ATOM ATOM ATOM	9441 9442 9443 9444 9445 9446	CD OE1 NE2 C O N	GLN GLN GLN GLN GLN TYR	455 455 455 455 455 456	113. 425 112. 514 113. 605 114. 156 114. 058 113. 803	42. 482 41. 958 42. 266 45. 815 45. 059 47. 094	57. 387 56. 749 58. 688 53. 669 52. 704 53. 597	1. 00 13. 33 1. 00 14. 25 1. 00 13. 47 1. 00 14. 10 1. 00 14. 35 1. 00 13. 95	B B B B	C O N C O N
ATOM ATOM ATOM ATOM ATOM ATOM	9447 9448 9449 9450 9451 9452	CA CB CG CD1 CE1	TYR TYR TYR TYR	456 456 456 456 456 456	113. 268 111. 742 111. 049 110. 504 109. 815 110. 891	47. 651 47. 600 47. 707 46. 578 46. 674 48. 941	52. 355 52. 387 51. 045 50. 436 49. 236 50. 405	1. 00 13. 75 1. 00 13. 55 1. 00 10. 86 1. 00 10. 75 1. 00 9. 29 1. 00 9. 71	B B B B	C C C C C
ATOM ATOM ATOM ATOM	9453 9454 9455 9456		TYR TYR TYR TYR	456 456 456 456	110. 207 109. 669 108. 949 113. 718	49. 046 47. 910 47. 994 49. 092	49. 200 48. 629 47. 464 52. 190	1.00 4.15 1.00 8.20 1.00 11.71 1.00 14.04	В В В В	C C O C

					FIG	. 4 -	194			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9457 9458 9459 9460 9461 9462 9463 9464 9465 9466 9467 9470 9471 9472 9473 9474 9475 9476 9477 9478 9479 9480 9481 9483 9484 9485 9486 9487 9488 9489 9490 9491	O N CA CB CCD1 CE1 CD2 CZ OH C O N CA CB CG1 CC O N CA CB CC C O N CA CB CC C O N CA CB CC C O N CA CB CC CC	TYR TYR TYR TYR TYR TYR SER SER SER SER SER VAL VAL	456 457 457 457 457 457 457 457 457 457 458 458 458 459 459 459 460 460 460 460 461 461 461	113. 127 114. 752 115. 286 116. 792 117. 271 117. 364 117. 903 117. 714 118. 245 118. 341 118. 877 115. 085 114. 827 115. 234 115. 176 113. 853 113. 804 116. 318 116. 631 116. 946 118. 086 119. 392 119. 442 120. 600 118. 051 117. 283 118. 901 118. 997 118. 997 118. 997 118. 939 118. 939 118. 038 120. 442 120. 930 121. 123 122. 516	49. 991 49. 309 50. 646 50. 674 50. 394 49. 088 48. 836 51. 434 51. 193 49. 902 49. 701 51. 192 50. 455 52. 505 53. 207 53. 950 55. 138 54. 175 54. 431 54. 709 55. 593 54. 853	1 9 4 52. 775 51. 382 51. 152 51. 390 52. 786 53. 275 54. 540 53. 595 54. 850 55. 318 56. 559 49. 742 48. 352 48. 163 48. 932 48. 620 49. 791 47. 779 47. 433 45. 934 47. 878 46. 969 46. 021 47. 347 46. 643 47. 272 46. 643 47. 272 46. 553 47. 752 46. 643 47. 752 46. 643 47. 272 46. 553 47. 752 46. 643 47. 272 46. 553 47. 752 46. 643 47. 272 46. 553 47. 272 46. 553 47. 272 46. 643 47. 272 46. 553 47. 272 46. 553 47. 272 46. 643 47. 272 46. 553 47. 272 46. 553 47. 272 46. 553 47. 272 46. 543 47. 272 46. 543 47. 272 46. 543 47. 272 46. 543 47. 272 46. 469 44. 454	1. 00 15. 30 1. 00 15. 11 1. 00 14. 85 1. 00 14. 62 1. 00 14. 47 1. 00 14. 12 1. 00 13. 34 1. 00 13. 51 1. 00 13. 51 1. 00 15. 66 1. 00 17. 46 1. 00 14. 42 1. 00 14. 42 1. 00 14. 29 1. 00 15. 10 1. 00 15. 10 1. 00 15. 10 1. 00 13. 28 1. 00 14. 29 1. 00 13. 45 1. 00 14. 23 1. 00 14. 51 1. 00 14. 51 1. 00 14. 91 1. 00 14. 99 1. 00 14. 06 1. 00 10. 57	B B B B B B B B B B B B B B B B B B B	
ATOM ATOM ATOM	9492 9493 9494	CG CD1	PHE PHE PHE	461 461 461	123. 583 122. 594	59. 229 57. 809 56. 832 57. 444	44. 454 44. 885 44. 792 45. 367	1.00 10.57 1.00 8.39 1.00 7.71 1.00 6.73	В В В В	C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9495 9496 9497 9498 9499 9500 9501 9502 9503 9504 9505	CE1	PHE PHE PHE SER SER SER SER SER	461 461 461 461 462 462 462 462 462 462	122. 848 125. 105 124. 108 122. 665 121. 833 123. 740 124. 019 125. 131 126. 346 124. 465	55. 509 56. 118 55. 153 61. 533 62. 076 62. 170 63. 555 64. 137 63. 421	45. 367 45. 172 45. 752 45. 653 45. 066 44. 340 45. 528 45. 155 46. 036 45. 878 43. 687 43. 075	1.00 6.28 1.00 6.24 1.00 6.94 1.00 16.79 1.00 17.81 1.00 18.84 1.00 20.51 1.00 21.92 1.00 24.40 1.00 20.69 1.00 21.27	B B B B B B B	C C C C O N C C O C

					FΙ	G. 4	- 195	5		(Continued)
ATOM ATOM	9506 9507	N CA	LYS LYS		124. 708 125. 109	8 64.736	43.128	1.00 22.99	В	N
ATOM	9508	CB	LYS		125. 108				В	C
ATOM	9509	CG	LYS		124. 275				B B	C C
ATOM	9510	CD	LYS		124. 427				В	č
ATOM	9511	CE	LYS		123. 083				В	č
<b>ATOM</b>	9512	NZ	LYS		123. 169				В	Ň
<b>ATOM</b>	9513	C	LYS	463	126. 204				В	Č
ATOM	9514	0	LYS	463	126.057				B	ŏ
ATOM	9515	N	GLU	464	127. 305				B	Ň
ATOM	9516	CA	GLU	464	128. 355			1.00 28.40	B	Ĉ
ATOM	9517	CB	GLU	464	129.710			1.00 31.19	B	Č
ATOM	9518	CG	GLU	464	130.079	64.030	40.027	1.00 35.17	B	Č
ATOM	9519	CD	GLU	464	129. 150		39.495	1.00 37.56	В	Ċ
ATOM	9520	0E1		464	129. 200	66. 229	40.022	1.00 41.38	В	0
ATOM	9521		GLU	464	128. 371	64.817	38. 557	1.00 38.51	В	0
ATOM	9522	C	GLU	464	128.476	61.627	42.367	1.00 26.36	В	C
ATOM	9523	0	GLU	464	129. 515	60.975	42.379	1.00 25.64	В	0
ATOM	9524	N	ALA	465	127. 404	61.302	43. 081	1.00 23.96	В	N
ATOM	9525	CA	ALA	465	127. 372	60. 127	43. 936	1.00 21.85	В	C
ATOM	9526	CB	ALA	465	127.663	58. 869	43. 121	1.00 21.46	В	C
ATOM	9527	C	ALA	465	128. 362	60. 245	45.074	1.00 20.68	В	C
ATOM ATOM	9528	0 N	ALA	465	128. 850	59. 244	45. 591	1.00 16.26	В	0
ATOM	9529 9530	N CA	LYS	466	128.661	61.476	45.462	1.00 22.56	В	N
ATOM	9531	CB	LYS LYS	466	129. 588	61.693	46. 562	1.00 24.73	В	C
ATOM	9532	CG	LYS	466 466	130.041	63. 154	46.609	1.00 25.44	В	C
ATOM	9533	CD	LYS	466	131. 173 131. 835	63. 405	47.581	1.00 29.20	В	C
ATOM	9534	CE	LYS	466	131. 033	64. 762 64. 909	47.351	1.00 32.39	В	C
ATOM	9535	NZ	LYS	466	133. 806	66.188	48. 218 47. 965	1.00 34.11	В	C
ATOM	9536	C	LYS	466	128. 859	61.318	47. 847	1.00 36.88	В	N
ATOM	9537	ŏ	LYS	466	129. 469	60.850	48. 809	1.00 24.27 1.00 24.32	В.	C
ATOM	9538	Ň	TYR	467	127. 544	61.514	47.846	1.00 24.32	B B	0
ATOM	9539	CA	TYR	467	126. 722	61.182	49.004	1.00 22.32	В	N
ATOM	9540	CB	TYR	467	126. 356	62.441	49. 794	1.00 23.00	В	C C
ATOM	9541	CG	TYR	467	127. 527	63. 237	50. 292	1.00 24.92	В	Č
ATOM	9542	CD1	TYR	467	128. 201	64.119	49. 451	1.00 25.30	В	Č
ATOM	9543	CE1	TYR	467	129.301	64.841	49. 902	1.00 26.01	В	Č
ATOM	9544		TYR	467	127. 981	63.095	51.604	1.00 26.01	B	č
ATOM	9545		TYR	467	129.079	63.811	52.064	1.00 26.37	B	č
ATOM	9546	CZ	TYR	467	129.736	64.681	51.206	1.00 26.55	B	č
ATOM	9547	OH	TYR	467	130.841	65.369	51.645	1.00 26.89	B	ŏ
ATOM	9548	C	TYR	467	125. 428	60.500	48.584	1.00 22.16	В	Č
ATOM	9549	0	TYR	467	125.034	60.557	47.420	1.00 22.32	В	0
ATOM	9550	N	TYR	468	124. 775	59.840	49.534	1.00 21.72	В	N
ATOM	9551	CA	TYR	468	123. 492	59. 208	49. 251	1.00 21.47	В	C
ATOM	9552	CB	TYR	468	123.650	57.817	48.614	1.00 19.80	В	C
ATOM	9553	CG	TYR	468	124. 468	56. 797	49. 380	1.00 19.37	В	С
ATOM	9554	CDI	TYR.	468	125.844	56.683	49. 184	1.00 20.24	В	C

FIC 1-106										
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9555 9556 9557 9558 9559 9560 9561 9562	CD: CE: CZ: OH: C: O: N: CA	1 TYR 2 TYR 2 TYR TYR TYR TYR TYR GLN GLN	468 468 468 468 468 468 469	F I G. 4 - 1 9 6  126.588 55.695 49.833 1.00 20.33 B 123.856 55.902 50.252 1.00 19.91 B 124.588 54.915 50.909 1.00 19.25 B 125.951 54.816 50.695 1.00 20.72 B 126.674 53.845 51.349 1.00 20.60 B 122.602 59.103 50.474 1.00 21.65 B 123.068 58.836 51.588 1.00 21.59 B 121.317 59.360 50.268 1.00 19.96 B 120.369 59.235 51.355 1.00 18.78	(Continued)  C C C C C O N C				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9564 9565 9566 9567 9568 9570 9571 9572 9573 9574	CB CC OE1 NE2 C O N CA CB CC	GLN GLN GLN GLN GLN GLN LEU LEU LEU	469 469 469 469 469 469 470 470 470	119. 277       60. 302       51. 283       1. 00 16. 79       B         118. 247       60. 143       52. 393       1. 00 16. 33       B         117. 035       61. 034       52. 214       1. 00 16. 44       B         116. 438       61. 076       51. 147       1. 00 18. 52       B         116. 659       61. 739       53. 265       1. 00 16. 60       B         119. 729       57. 855       51. 240       1. 00 18. 75       B         119. 353       57. 413       50. 156       1. 00 20. 25       B         119. 641       57. 160       52. 359       1. 00 18. 03       B         119. 013       55. 862       52. 383       1. 00 16. 05       B         119. 871       54. 860       53. 153       1. 00 12. 88       B         120. 920       54. 116       52. 334       1. 00       7. 18       B	C C O N C O N C C C				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9575 9576 9577 9578 9579 9580 9581 9582 9583 9584		LEU LEU LEU ARG ARG ARG ARG ARG	470 470 470 470 471 471 471 471 471	121.669       53.176       53.230       1.00       9.83       B         120.248       53.344       51.241       1.00       5.95       B         117.674       56.055       53.077       1.00       18.52       B         117.573       56.769       54.082       1.00       17.50       B         116.644       55.437       52.517       1.00       20.97       B         115.306       55.521       53.070       1.00       23.15       B         114.354       56.203       52.085       1.00       25.88       B         112.907       56.240       52.553       1.00       31.75       B         111.997       56.927       51.541       1.00       35.75       B	C C O N C C C C				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9585 9586 9587 9588 9589 9590 9591 9592 9593	CZ NH1 NH2 C O N CA C	ARG ARG ARG ARG CYS CYS CYS CYS	471 471 471 471 471 472 472 472 472	109. 737       57. 920       51. 478       1. 00       41. 33       B         109. 972       58. 412       50. 269       1. 00       41. 52       B         108. 564       58. 142       52. 063       1. 00       40. 93       B         114. 826       54. 112       53. 345       1. 00       24. 13       B         114. 604       53. 323       52. 425       1. 00       25. 84       B         114. 687       53. 796       54. 621       1. 00       23. 64       B         114. 219       52. 487       55. 042       1. 00       23. 00       B         112. 732       52. 636       55. 321       1. 00       21. 14       B         112. 323       53. 547       56. 036       1. 00       21. 12       B	N C N C O N C C				
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9600 9601 9602		CYS CYS SER SER SER SER SER SER GLY GLY	472 473 473 473 473 473 473 474 474	114. 981       52. 073       56. 299       1. 00       23. 91       B         114. 149       50. 907       57. 416       1. 00       27. 85       B         111. 919       51. 755       54. 756       1. 00       19. 44       B         110. 482       51. 846       54. 967       1. 00       18. 92       B         109. 789       52. 191       53. 646       1. 00       18. 36       B         110. 141       51. 261       52. 642       1. 00       21. 93       B         109. 832       50. 609       55. 581       1. 00       17. 21       B         108. 615       50. 465       55. 530       1. 00       19. 59       B         110. 629       49. 716       56. 156       1. 00       16. 48       B         110. 055       48. 532       56. 771       1. 00       16. 90       B	C S N C C O C O N C				

## 200/246

	(Continued)									
ATOM	9604	ł C	GLY	474			- 197		Th.	0
ATOM	9605		GLY		111.040 112.149	47. 425 47. 403			В	C
ATOM	9606		PRO	_	112.149				В	0
ATOM	9607				111.562	46. 446 45. 333			В	N
ATOM	9608				109.353	46. 249			В	C
ATOM	9609				109. 333	40. 249			В	C
ATOM	9610				110. 896	44. 680			В	C
ATOM	9611		PRO	475	100. 030	47. 214			В	C
ATOM	9612		PRO	475	103. 012	47. 392			В	C
ATOM	9613		GLY	476	110.023	47. 818		1.00 16.67	В	0
ATOM	9614			476	109.770	48. 750		1.00 14.14	В	N
ATOM	9615		GLY	476	109. 524	50.140			В	C
ATOM	9616		GLY	476	109. 407	50. 307	59.656		В	C
ATOM	9617	Ň	LEU	477	109. 454	51.137	61.748		В	0
<b>ATOM</b>	9618	CA	LEU	477	109. 222	52. 519	61.331	1.00 11.14	B B	N C
<b>ATOM</b>	9619	CB	LEU	477	109.072	53. 412	62. 563	1.00 11.32	В	C C
ATOM	9620	CG	LEU	477	107. 928	53. 053	63. 514	1.00 10.07	В	Č
<b>ATOM</b>	9621		LEU	477	107. 940	54.009	64. 698	1.00 13.02	В	Č
ATOM	9622		LEU 2	477	106.586	53. 114	62.775	1.00 12.40	В	Č
ATOM	9623	C	LEU	477	110. 325	53.086	60.414	1.00 12.41	В	Č
ATOM	9624	0	LEU	477	111.516	52.819	60.604	1.00 11.34	В	0
ATOM	9625	N	PRO	478	109.931	53. 894	59.414	1.00 13.58	В	N
ATOM	9626	CD	PRO	478	108. 541	54. 283	59. 121	1.00 14.52	В	Č
ATOM	9627	CA	PRO	478	110.852	54.510	58. 455	1.00 14.07	B	č
ATOM	9628	CB	PRO	478	109.962	55.495	57.705	1.00 13.81	B	č
ATOM	9629	CG	PRO	478	108.638	54. 795	57.702	1.00 14.19	B	Č
ATOM	9630	C	PRO	478	112.033	55.188	59.118	1.00 15.11	B	č
ATOM	9631	0	PRO	478	111.892	55.820	60.163	1.00 16.31	B	Ö
ATOM	9632	N	LEU	479	113. 197	55.048	58.490	1.00 16.04	В	N
ATOM	9633	CA	LEU	479	114. 444	55.621	58.982	1.00 15.01	B	C
ATOM	9634	CB	LEU	479	115.279	54. 528	59.657	1.00 13.83	B	Č
ATOM	9635	CG	LEU	479	116.675	54.866	60.179	1.00 12.46	В	Č
ATOM	9636		LEU	479	116.606	55. 990	61.189	1.00 13.23	В	C
ATOM	9637		LEU	479	117. 268	53.631	60.813	1.00 12.22	В	C
ATOM	9638	C	LEU	479		56. 217	57.801	1.00 14.97	В	C
ATOM ATOM	9639	0	LEU	479		55. 557	56. 783	1.00 15.80	В	0
ATOM	9640 9641	N	TYR	480		57. 468	57.940	1.00 15.76	В	N
ATOM	9642	CA CB	TYR	480		58. 165	56.883	1.00 16.51	В	С
ATOM	9643	CG	TYR	480		59. 471	56.517	1.00 18.80	В	C
ATOM	9644		TYR TYR	480		59. 293	56.024	1.00 20.33	В	C
ATOM	9645		TYR	480		59. 364	54.664	1.00 22.57	В	С
ATOM	9646		TYR	480 480		59. 161	54. 196	1.00 23.68	В	C
ATOM	9647		TYR	480 480		59.019	56. 915	1.00 20.23	В	C
ATOM	9648	CZ	TYR	480 480		58.815	56. 464	1.00 22.45	В	C
ATOM	9649	OH	TYR	480		58. 885 58. 658	55. 102	1.00 24.15	В	C
ATOM	9650	C	TYR	480		58. 483	54. 648 57. 379	1.00 24.41	В	0
ATOM	9651	ŏ	TYR	480		59. 005	58. 482	1.00 15.96 1.00 15.89	В	C
ATOM	9652	N	THR	481		58. 179	56. 559	1.00 15.76	B B	0 N
								10.10	ע	11

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					FIC	G. 4-	198			(Continued)
ATOM	9653	CA	THR	481	120. 129	58. 431	56. 924	1.00 15.65	В	С
ATOM	9654	CB	THR	481	120.774	57. 163	57.480	1.00 14.54	В	С
<b>ATOM</b>	9655		THR		120.459	56.065	56.622	1.00 18.10	В	0
ATOM	9656	CG2	THR	481	120. 256	56.864	58.858	1.00 15.87	В	С
ATOM	9657	C	THR	481	120.964	58. 919	55.752	1.00 16.24	В	C
ATOM	9658	0	THR	481	120.650	58. 648	54.602	1.00 16.93	В	0
ATOM	9659	N	LEU	482	122.035	59.646	56.058	1.00 18.90	В	N
ATOM	9660	CA	LEU	482	122.937	60.166	55.038	1.00 19.21	В	C
ATOM	9661	CB	LEU	482	123. 203	61.653	55.279	1.00 20.10	В	С
ATOM	9662	CG	LEU	482	123.765	62.439	54.092	1.00 21.90	В	С
ATOM	9663	CD1	LEU	482	122.736	62.475	52.975	1.00 21.10	В	C
ATOM	9664	CD2	LEU	482	124.115	63.856	54. 525	1.00 22.66	В	С
ATOM	9665	C	LEU	482	124. 243	59. 373	55. 121	1.00 19.39	В	C
ATOM	9666	0	LEU	482	124.684	59.013	56. 210	1.00 20.79	В	0
ATOM	9667	N	HIS	483	124.849	59.096	53.970	1.00 18.33	В	N
ATOM	9668	CA	HIS	483	126.090	58. 332	53. 903	1.00 16.79	В	С
ATOM	9669	CB	HIS	483	125.791	56.894	53.488	1.00 14.55	В	C
ATOM	9670	CG	HIS	483	124.697	56. 245	54. 276	1.00 14.89	В	C
ATOM	9671	CD2	HIS	483	123.358	56.434	54. 264	1.00 15.13	В	C
ATOM	9672		HIS	483	124. 933	<b>55. 258</b>	55. 211	1.00 16.09	В	N
ATOM	9673	CE1	HIS	483	123. 788	54.867	55.736	1.00 13.84	В	С
ATOM	9674	NE2	HIS	483	122.816	55. 565	55.178	1.00 14.31	В	N
ATOM	9675	C	HIS	483	127.043	58. 939	52.868	1.00 18.94	В	С
ATOM	9676	0	HIS	483	126.617	59.665	51.961	1.00 19.56	В	0
ATOM	9677	N	SER	484	128.333	58.645	53.003	1.00 19.52	В	N
ATOM	9678	CA	SER	484	129.318	59. 131	52.040	1.00 21.33	В	С
ATOM	9679	CB	SER	484	130.520	59.779	52.738	1.00 21.77	В	С
ATOM	9680	0G	SER	484	131.351	58.803	53.344	1.00 24.25	В	0
ATOM	9681	C	SER	484	129.774	57.907	51.259	1.00 21.22	В	С
ATOM	9682	0	SER	484	129.942	56.827	51.830	1.00 19.26	В	0
ATOM	9683	N	SER	485	129.979	58.076	49.960	1.00 22.12	В	N
ATOM	9684	CA	SER	485	130.389	56.967	49.110	1.00 25.62	В	С
ATOM	9685	CB	SER	485	130.095	57.301	47.645	1.00 26.28	В	C
ATOM	9686	0G	SER	485	128.715	57. 552	47.444	1.00 30.40	В	0
ATOM	9687	C	SER	485	131.840	56.495	49. 221	1.00 26.33	В	С
ATOM	9688	0	SER	485	132.097	55.300	49.138	1.00 27.23	В	0
ATOM	9689	N	VAL	486	132. 781	57.416	49.407	1.00 28.07	В	N
ATOM	9690	CA	VAL	486	134. 194	57.056	49.468	1.00 29.41	В	C
ATOM	9691	CB	VAL	486	135.084	58. 284	49.798	1.00 30.37	В	C
ATOM	9692	CG1	VAL	486	134.786	58.797	51.192	1.00 31.49	В	C
ATOM	9693	CG2	VAL	486	136.553	57.909	49.665	1.00 30.81	В	С
ATOM	9694	C	VAL	486	134.507	55.929	50.442	1.00 30.57	В	C
ATOM	9695	0	VAL	486	135. 269	55.016	50.119	1.00 31.62	В	0
ATOM	9696	N	ASN	487	133.922	55.979	51.630	1.00 30.95	В	N
ATOM	9697	CA	ASN	487	134. 159	54.928	52.610	1.00 31.75	В	С
ATOM	9698	CB	ASN	487	134.888	55. 498	53.833	1.00 35.87	В	С
ATOM	9699	CG	ASN	487	136.336	55.868	53. 537	1.00 38.55	В	С
ATOM	9700	0D1		487	136.838	56.895	54.014	1.00 38.47	В	0
ATOM	9701	ND2	ASN	487	137.019	55.026	52.759	1.00 37.49	В	N

					ास	G. 4 -	. 1 9 9			(Continued)
	0500	0							_	_
ATOM	9702	C	ASN		132. 850			1.00 30.74	В	C
ATOM	9703	0	ASN		132. 830			1.00 31.45	В	0
ATOM	9704	N	ASP		131. 762		52.364	1.00 28.68	В	N
ATOM ATOM	9705 9706	CA CB	ASP ASP		130. 449 130. 331		52.707 52.313	1.00 26.66 1.00 27.90	В	C
ATOM	9700	CG	ASP		130. 331	52. 636 52. 440	50. 816	1.00 27.90	В	C
ATOM	9708		ASP		129. 461	53. 146	50. 161	1.00 29.72	B B	O C
ATOM	9709		ASP		130.977		50. 290	1.00 31.30	В	0
ATOM	9710	C	ASP		130. 219	54. 259	54. 204	1.00 32.18	В	Č
ATOM	9711	ŏ	ASP		129.654		54. 856	1.00 23.72	В	0
ATOM	9712	Ň	LYS		130.669		54. 754	1.00 25.25	В	N
ATOM	9713	CA	LYS		130. 503		56. 176	1.00 24.10	В	Č
ATOM	9714	CB	LYS		131.607		56. 705	1.00 24.10	B	č
ATOM	9715	CG	LYS		131.622	57. 898	56.069	1.00 29.19	В	č
ATOM	9716	CD	LYS		132. 805		56.560	1.00 33.11	B	Č
ATOM	9717	CE	LYS		132.771	60.133	55. 995	1.00 34.94	B	č
ATOM	9718	NZ	LYS		133.883	60.959	56. 541	1.00 39.70	B	N
ATOM	9719	C	LYS	489	129.140	56. 216	56.449	1.00 22.29	B	Ċ
ATOM	9720	0	LYS	489	128.556	56.872	55.585	1.00 20.15	B	Ō
ATOM	9721	N	GLY	490	128.639	55.968	57.657	1.00 22.04	В	N
ATOM	9722	CA	GLY	490	127.352	56.487	58.067	1.00 20.03	В	C
ATOM	9723	C	GLY	490	127. 545	57.854	58.676	1.00 20.18	В	С
ATOM	9724	0	GLY	490	128.091	57. 989	59.769	1.00 20.54	В	0
ATOM	9725	N	LEU	491	127. 092	58.876	57. 965	1.00 19.44	В	N
ATOM	9726	CA	LEU	491	127. 234	60. 233	58. 440	1.00 19.54	В	C
ATOM	9727	CB	LEU	491	127. 032	61.203	57. 283	1.00 20.53	В	C
ATOM	9728		LEU	491	128. 153	61.167	56. 242	1.00 18.39	В	C
ATOM	9729		LEU	491	127.831	62.089	55.090	1.00 19.23	В	C
ATOM	9730		LEU	491	129. 441	61.577	56.898	1.00 18.31	В	C
ATOM	9731	C	LEU	491	126. 287	60.555	59. 586	1.00 20.91	В	
ATOM	9732	0	LEU	491	126. 735	60. 780	60.713	1.00 22.15	В	0
ATOM	9733	N	ARG	492	124. 984	60.566	59.316	1.00 20.73	В	N
ATOM ATOM	9734 9735	CA	ARG ARG	492	124.020	60.881	60.364	1.00 20.06	В	C
ATOM	9736	CB CG	ARG	492 492	124.036	62.382	60.644	1.00 20.71	В	C
ATOM	9737	CD	ARG	492	123. 393	63. 244	59.568	1.00 20.08	В	C
ATOM	9738	NE	ARG	492	123.759 125.193	64.698 64.888	59. 798	1.00 21.15	В	C
ATOM	9739	CZ	ARG	492	125. 765	65. 192	59. 625 58. 466	1.00 21.60 1.00 23.12	В	N
ATOM	9740		ARG	492	125. 703	65. 360	57.380	1.00 23.12	В	C
ATOM	9741		ARG	492	127. 083	65. 286	58. 383	1.00 24.47	B B	N
ATOM	9742	C	ARG	492	122. 585	60. 443	60. 085	1.00 23.72	В	N C
ATOM	9743	ŏ	ARG	492	122. 247	59. 998	58. 983	1.00 21.47	В	0
ATOM	9744	Ň	VAL	493	121. 746	60.580	61.107	1.00 20.97	В	N
ATOM	9745		VAL	493	120. 344	60. 211	61.018	1.00 21.38	В	Č
ATOM	9746		VAL	493	119. 883	59. 537	62. 325	1.00 22.41	В	č
ATOM	9747		VAL	493	118. 402	59. 215	62. 247	1.00 23.17	В	č
ATOM	9748		VAL	493	120.698	58. 266	62.574	1.00 20.83	В	č
ATOM	9749	C	VAL	493	119.497	61.456		1.00 21.55	B	Č
ATOM	9750	0	VAL	493	119.462	62.371	61.580	1.00 21.85	$\tilde{\mathbf{B}}$	Ö

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	FIG. 4-200	(Continued)
ATOM 9792 CB ALA ATOM 9793 C ALA ATOM 9794 O ALA ATOM 9795 N LEU ATOM 9796 CA LEU	494         118.811         61.485         59.626         1.00         21.18           494         117.782         62.660         57.742         1.00         19.57           494         119.101         62.610         56.953         1.00         21.60           494         118.832         62.502         55.456         1.00         20.38           494         119.929         63.851         57.271         1.00         19.91           494         116.615         62.576         59.964         1.00         18.58           494         116.615         62.576         59.964         1.00         18.58           494         116.111         63.595         60.443         1.00         18.58           495         116.025         61.390         60.022         1.00         16.24           495         113.612         61.651         59.698         1.00         17.53           495         113.612         61.651         59.698         1.00         17.53           495         113.612         61.651         59.698         1.00         17.53           495         114.678         58.875         60.268         1.00         17.53	B C C C C O N C C C O O C O N C C C C
	500 105. 642 57. 958 64. 678 1. 00 22. 08 500 104. 618 56. 922 64. 201 1. 00 20. 35 500 103. 200 57. 349 64. 570 1. 00 19. 30	B C B C

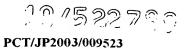
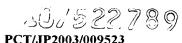


					FIG.	4 - 201	L		(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9800 9801 9802 9803 9804 9805 9806 9807 9810 9811 9812 9813 9814 9815 9816 9817 9818 9819 9820 9821 9822 9823 9824 9825 9826 9829 9830	C O N CA CB CG	ASP	500 500 500 501 501 501 501 501 502 502 502 502 502 502 502 502 502 503 503 503 503 503 503 504 504	104. 744       56         105. 745       57         104. 777       56         106. 997       56         107. 301       55         108. 793       55         109. 145       53         108. 621       52         109. 939       53         106. 296       54         107. 011       56         106. 591       56         107. 034       58         106. 991       59         106. 308       60         106. 514       59         105. 080       56         104. 592       55         104. 338       57         102. 881       57         102. 881       57         102. 254       58         102. 518       59         101. 702       60         100. 419       61         102. 361       55         102. 914       55         102. 471       53	4 - 2 0 ]  5. 763 62. 721  7. 009 66. 974  5. 407 67. 437  6. 601 67. 131  6. 392 67. 868  6. 1-20 67. 844  8. 848 68. 556  7. 789 68. 164  8. 901 69. 512  6. 484 69. 309  7. 520 69. 855  6. 45 69. 924  8. 819 71. 301  1. 184 71. 834  1. 484 73. 239  1. 184 71. 834  1. 484 73. 239  1. 184 71. 834  1. 484 73. 239  1. 184 71. 834  1. 484 73. 239  1. 184 71. 834  1. 484 73. 239  1. 184 71. 834  1. 834 71. 301  1. 184 71. 834  1. 184 71. 834  1. 183 71. 301  1. 184 71. 834  1. 184 71. 834  1. 184 71. 834  1. 183 71. 301  1. 184 71. 834  1. 184 71. 834  1. 184 71. 834  1. 183 71. 301  1. 184 71. 834  1. 184 71. 834  1. 184 71. 834  1. 183 71. 301  1. 184 71. 834  1. 184 71. 834  1. 184 71. 834  1. 183 71. 301  1. 184 71. 834  1.	1.00 19.60 1.00 24.37 7 1.00 24.06 1.00 26.06 1.00 26.81 1.00 26.66 1.00 29.87 1.00 30.35 1.00 27.60 1.00 27.99 1.00 28.69 1.00 31.12 1.00 33.97 1.00 35.56 1.00 36.56 1.00 37.47 1.00 38.22 1.00 33.49 1.00 32.49	B B B B B B B B B B B B B B B B B B B	C C O N C C C O O C O N C C C C C N C O N C C C S C C O N C
ATOM ATOM ATOM	9831 9832 9833	CG CD1 CD2	LEU LEU LEU	504 504 504	102. 517 53. 101. 696 54. 103. 508 53.	477 66. 290 750 66. 106 300 65. 143	1.00 29.55 1.00 28.10 1.00 27.73	В В В В	C C C
ATOM ATOM ATOM ATOM ATOM ATOM	9834 9835 9836 9837 9838 9839	C O N CA CB	LEU LEU GLN GLN GLN	504 504 505 505 505	101. 880 51. 103. 458 53. 103. 641 52. 104. 829 52.	998 69. 986 991 70. 016 291 70. 938 425 72. 096 915 72. 927	1. 00 29. 56 1. 00 27. 71 1. 00 31. 52 1. 00 33. 96 1. 00 36. 96	B B B B	C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	9840 9841 9842 9843 9844 9845	CD	GLN GLN GLN GLN GLN GLN ASN	505 505 505 505 505 505 506	106. 652 51. 4 107. 079 50.	400 73.634	1.00 42.44 1.00 43.93 1.00 45.80 1.00 45.49 1.00 33.38 1.00 32.77 1.00 32.89	B B B B B	C C O N C
ATOM ATOM ATOM	9846 9847 9848	CA CB CG	ASN ASN ASN	506 506 506	100.362 53.1 99.997 55.0 101.108 55.8	590 73.694 062 73.937	1.00 32.38 1.00 35.05 1.00 39.34	В В В	N C C C

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					FIC	G. 4	- 202			(Continued)
ATOM	9849	በጠ	ASN	506	101. 426			1.00 41.09	В	0
ATOM	9850		ASN	506	101. 420			1.00 41.09	В	N N
ATOM	9851	C	ASN	506	99. 208			1.00 30.32	В	Č
ATOM	9852	ŏ	ASN	506	98. 058		73. 377	1.00 30.92	В	Ö
ATOM	9853	Ň	VAL	507	99. 516		71.803	1.00 26.94	В	N
ATOM	9854	CA	VAL	507	98. 497			1.00 25.15	B	Č
ATOM	9855	CB	VAL	507	98. 456			1.00 23.88	В	č
ATOM	9856		VAL	507	97. 287			1.00 21.31	B	Č
ATOM	9857	CG2	VAL	507	98. 344		69.633	1.00 22.11	В	C
ATOM	9858	C	VAL	507	98. 717	50.164	70.825	1.00 25.62	В	C
ATOM	9859	0	VAL	507	99.838		70.945	1.00 26.78	В	0
ATOM	9860	N	GLN	508	97.639		70.567	1.00 25.89	В	N
ATOM	9861	CA	GLN	508	97. 730		70. 381	1.00 25.14	В	C
ATOM	9862	CB	GLN	508	96.486		70. 917	1.00 27.32	В	C
ATOM	9863	CG	GLN	508	96. 322		72. 422	1.00 29.65	В	C
ATOM	9864	CD	GLN	508	95. 190	46. 543	72.958	1.00 30.81	В	С
ATOM	9865	0E1		508	95. 208	45. 312	72.836	1.00 31.32	В	0
ATOM	9866	NE2		508	94. 199	47. 190	73. 561	1.00 29.92	В	N
ATOM	9867	C	GLN	508	97. 869	47. 740	68. 899	1.00 23.65	В	C
ATOM ATOM	9868 9869	0 N	GLN MET	508	96. 944	47. 277	68. 241	1.00 22.60	В	0
ATOM	9870	N CA	MET	509 509	99.046	48.063	68.385	1.00 23.78	В	N
ATOM	9871	CB	MET	509 509	99. 347	47. 895	66.980	1.00 23.48	В	C
ATOM	9872	CG	MET	509 509	100. 667 100. 586	48. 578 50. 070	66.655	1.00 23.41	В	C
ATOM	9873	SD	MET	509	99. 279	50.681	66. 782 65. 719	·1.00 26.19 1.00 28.03	B B	C
ATOM	9874	CE	MET	509	100. 207	50. 994	64. 209	1.00 25.78	В	S C
ATOM	9875	C	MET	509	99. 425	46. 440	66.579	1.00 23.44	В	C
ATOM	9876	ŏ	MET	509	99. 902	45. 599	67. 343	1.00 23.44	В	0
ATOM	9877	Ň	PRO	510	98. 951	46. 121	65.365	1.00 22.69	В	N N
ATOM	9878	CD	PRO	510	98. 308	47. 027	64. 395	1.00 22.87	В	C
ATOM	9879	CA	PRO	510	98. 974	44. 751	64.854	1.00 21.97	В.	č
ATOM	9880	CB	PR0	510	97.987	44. 807	63. 701	1.00 22.62	B	č
ATOM	9881	CG	PR0	510	98. 248	46.171		1.00 22.72	B	č
ATOM	9882	C	PR0	510	100.381	44. 434	64.379	1.00 21.20	B	č
ATOM	9883	0	PR0	510	101.249	45. 301	64.353	1.00 19.97	В	0
ATOM	9884	N	SER	511	100.605	43.188	63.997	1.00 22.07	В	N
ATOM	9885	CA	SER	511	101.916	42. 782	63.521	1.00 23.02	В	С
ATOM	9886	CB	SER	511	102. 481	41.654	64. 392	1.00 23.03	В	С
ATOM	9887	0G	SER	511	101.653	40.500	64.358	1.00 26.12	В	0
ATOM	9888	C	SER	511	101.773	42. 299	62.094	1.00 23.35	В	C
ATOM	9889	0	SER	511	100.659	42. 168		1.00 24.92	В	0
ATOM	9890	N	LYS	512	102. 906	42. 035		1.00 22.83	В	N
ATOM	9891		LYS	512	102.916	41.556	60.094	1.00 22.46	В	C
ATOM ATOM	9892 9893		LYS LYS	512 512	103.490	42.615	59. 168	1.00 21.81	В	C
ATOM	9894		LYS	512 512	103. 494 103. 820	42. 209		1.00 23.24	В	C
ATOM	9895		LYS	512	103. 824	43. 411 43. 080	56. 851 55. 393	1.00 24.28	В	C
ATOM	9896		LYS	512	103. 824	43. 080	55. 393 54. 622	1. 00 23. 13 1. 00 24. 52	B B	C N
ATOM	9897		LYS	512	103. 742	40. 289	59. 993	1.00 24.32	В	C
	<del>-</del> ·	-				10. 200	34.000	1.00 22.01	J	J

							(Continued)
					FIG. 4-2	2 0 3	
ATOM ATOM ATOM ATOM ATOM ATOM	9898 9899 9900 9901 9902 9903	O N CA CB CG CD	LYS LYS LYS LYS LYS LYS	512 513 513 513 513 513	103. 235 39. 331 5 103. 910 38. 069 5 103. 046 36. 923 5 103. 522 35. 537 5	60. 585       1. 00       23. 26       B         69. 235       1. 00       24. 10       B         69. 039       1. 00       24. 49       B         69. 566       1. 00       25. 52       B         69. 148       1. 00       26. 69       B         69. 522       1. 00       30. 85       B	O N C C C C
ATOM ATOM ATOM ATOM	9904 9905 9906 9907	CE NZ C O	LYS LYS LYS LYS	513 513 513 513	102. 805 33. 124 5 104. 131 32. 573 5 104. 143 37. 888 5 103. 196 37. 871 5	88. 866       1.00       33.37       B         19. 287       1.00       36.04       B         17. 552       1.00       25.44       B         16. 763       1.00       27.00       B	C N C O
ATOM ATOM ATOM ATOM ATOM	9908 9909 9910 9911 9912		LEU LEU LEU LEU	514 514 514 514 514	105. 775 37. 561 5 106. 870 38. 536 5 107. 307 38. 465 5	7. 171       1.00       24.62       B         5. 783       1.00       22.99       B         5. 380       1.00       22.15       B         3. 925       1.00       21.19       B         3. 029       1.00       19.85       B	N C C C C
ATOM ATOM ATOM ATOM ATOM	9913 9914 9915 9916 9917	CD2 C O N CA	LEU LEU LEU ASP ASP	514 514 514 515 515	106. 292 36. 132 59 107. 123 35. 725 50 105. 804 35. 361 54	3. 701 1. 00 18. 42 B 5. 708 1. 00 24. 30 B 6. 519 1. 00 24. 87 B 4. 747 1. 00 25. 31 B 4. 634 1. 00 26. 30 B	C C O N C
ATOM ATOM ATOM ATOM	9918 9919 9920 9921	CB CG OD1 OD2	ASP ASP ASP ASP	515 515 515 515	105.599 33.156 59 106.403 31.929 56 107.209 31.474 59 106.216 31.409 57	5. 757       1.00       28.58       B         6. 108       1.00       30.08       B         5. 272       1.00       31.89       B         7. 224       1.00       33.36       B	C C O O
ATOM ATOM ATOM ATOM ATOM	9922 9923 9924 9925 9926		ASP ASP PHE PHE PHE	515 515 516 516 516	105. 343 34. 157 52 105. 940 32. 104 53 105. 571 31. 496 51 106. 792 31. 384 50	3. 282       1. 00       26. 17       B         2. 417       1. 00       26. 57       B         3. 103       1. 00       25. 46       B         1. 838       1. 00       25. 82       B         0. 930       1. 00       23. 83       B	C O N C C
ATOM ATOM ATOM ATOM ATOM	9927 9928 9929 9930 9931	CG CD1 CD2 CE1 CE2	PHE PHE	516 516 516 516 516	108. 896 30. 808 52 107. 678 29. 042 51 109. 836 29. 885 52	1. 413       1. 00       22. 29       B         2. 176       1. 00       22. 68       B         1. 119       1. 00       21. 58       B         2. 642       1. 00       21. 89       B         1. 579       1. 00       21. 19       B	C C C C
ATOM ATOM ATOM ATOM ATOM	9932 9933 9934 9935 9936	CZ C O N CA	PHE PHE PHE ILE ILE	516 516 516 517 517	109.689     28.536     52       104.955     30.117     51       105.063     29.452     52       104.307     29.707     50	2. 342       1. 00       20. 70       B         1. 954       1. 00       26. 95       B         2. 980       1. 00       28. 94       B         0. 872       1. 00       27. 35       B	C C O N
ATOM ATOM ATOM ATOM	9937 9938 9939 9940	CB CG2 CG1 CD1	ILE ILE ILE ILE	517 517 517 517	102.155     28.470     50       101.645     29.073     52       101.682     29.296     49       100.175     29.486     49	0. 755       1. 00       28. 12       B         0. 729       1. 00       26. 53       B         2. 016       1. 00       27. 39       B         9. 537       1. 00       27. 43       B         9. 486       1. 00       26. 37       B	C C C C
ATOM ATOM ATOM ATOM ATOM	9941 9942 9943 9944 9945	C O N CA CB	ILE ILE ILE ILE ILE	517 517 518 518 518	104. 575 28. 697 48 104. 239 26. 581 49 104. 709 26. 029 47	9. 411       1. 00       30. 13       B         3. 551       1. 00       29. 21       B         9. 228       1. 00       33. 16       B         7. 969       1. 00       36. 01       B         3. 190       1. 00       36. 84       B	C O N C C
ATOM	9946	CG2	ILE	518		6. 845 1. 00 36. 94 B	Ċ



					<b></b>			(Continued)
					FIG. 4-204			
ATOM	9947		ILE	518		0 38.21	В	C
ATOM	9948		ILE	518		0 40.77	В	C
ATOM	9949	C	ILE	518		0 37.38	В	C
ATOM	9950	0 N	ILE	518			B	0
ATOM	9951	N	LEU	519			B	N
ATOM ATOM	9952 9953	CA CB	LEU LEU	519			В	C
ATOM	9954	CG	LEU	519 519			B	C
ATOM	9955		LEU	519			B B	C
ATOM	9956		LEU	519			В	C C C
ATOM	9957	C	LEU	519			В	C
ATOM	9958	ŏ	LEU	519			В	Õ
ATOM	9959	Ň	ASN	520			В	Ň
ATOM	9960	CA	ASN	520			B	Ċ
ATOM	9961	CB	ASN	520			B	Č
ATOM	9962	CG	ASN	520			В	C
ATOM	9963		ASN	520		0 50.54	В	0
ATOM	9964		ASN	520		50.46	В	N
ATOM	9965	C	AŞN	520			В	C
ATOM	9966	0	ASN	520			B	0
ATOM	9967	N	GLU	521			В	N
ATOM	9968	CA	GLU	521			В	C
ATOM ATOM	9969	CB	GLU	521			В	C
ATOM	9970 9971	CG CD	GLU GLU	521 521			В	C
ATOM	9972	0E1	GLU	521			В	C
ATOM	9973		GLU	521			В	0
ATOM	9974	C	GLU	521			B B	0
ATOM	9975	ŏ	GLU	521			В	C 0
ATOM	9976	Ň	THR	522			В	N
ATOM	9977	CA	THR	522			В	Č
ATOM	9978	CB	THR	522			В	č
ATOM	9979	0G1	THR	522			B	ŏ
ATOM	9980	CG2	THR	522			В	Č
ATOM	9981	C	THR	522	106.959 27.441 44.664 1.00		В	C
ATOM	9982	0	THR	522			В	0
ATOM	9983	N	LYS	523			В	N
ATOM	9984	CA	LYS	523			3	С
ATOM	9985	CB	LYS	523			3	C
ATOM ATOM	9986 9987	CG CD	LYS	523		31. 42 I		C
ATOM	9988	CE	LYS LYS	523 523		32. 07 I		C
ATOM	9989	NZ	LYS	523 523		33.13 H		C
ATOM	9990	C	LYS	523		35. 72 H 28. 56 H		N
ATOM	9991	ŏ	LYS	523		28. 56 H		C 0
ATOM	9992	Ň	PHE	524		25. 40 E		N
ATOM	9993	CA	PHE	524		22. 61 E		C
ATOM	9994	CB	PHE	524		22. 69 H		Č
ATOM	9995	CG	PHE	524		21. 75 E		č

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					FΙ	G. 4	- 205			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9996 9997 9998 9999 10000 10001 10005 10006 10007 10008 10009 10010	CD: CE: CZ: C O N CA CB CG: CE: CE: CD: NE:	TRP TRP TRP TRP	524 524 524 524 524 525 525 525 525 525	103. 626 103. 541 103. 662 103. 576 103. 637 104. 765 104. 416 105. 016 104. 950 106. 059 107. 442 108. 393 109. 574 108. 366 108. 062 109. 344	29. 773 32. 031 29. 306 31. 579 30. 213 32. 593 31. 941 33. 892 34. 600 35. 646 35. 092 35. 031 34. 454 35. 411 34. 560 34. 176	44. 247 43. 448 42. 935 42. 131 41. 871 47. 890 48. 875 47. 950 49. 216 49. 274 49. 191 50. 253 49. 726 51. 602 48. 086 48. 403	1. 00 22. 19 1. 00 22. 40 1. 00 22. 45 1. 00 22. 01 1. 00 22. 70 1. 00 20. 73 1. 00 19. 19 1. 00 18. 35 1. 00 17. 31 1. 00 16. 81 1. 00 16. 14 1. 00 14. 70 1. 00 16. 70 1. 00 14. 22 1. 00 15. 59 1. 00 14. 99	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10012 10013 10014 10015 10016 10017 10018 10019 10020 10021 10022 10023 10024 10025 10026	CZ2 CZ3 CH2 C O N CA CB CG CD1 CE1 CD2 CE2 CZ	TRP TRP TRP TRP TYR TYR TYR TYR TYR TYR TYR TYR TYR	525 525 525 525 526 526 526 526 526 526	110. 722 109. 506 110. 668 103. 630 102. 880 103. 361 102. 165 101. 053 101. 369 101. 132 101. 416 101. 902 102. 189 101. 945 102. 235	34. 247 35. 204 34. 627 35. 280 35. 719 35. 368 36. 034 35. 030 34. 076 34. 422 33. 531 32. 817 31. 922 32. 280 31. 370	50. 508 52. 381 51. 829 49. 554 48. 675 50. 849 51. 341 51. 652 52. 778 54. 110 55. 146 52. 509 53. 527 54. 840 55. 830	1.00 17.11 1.00 14.40 1.00 15.16 1.00 17.78 1.00 17.96 1.00 16.97 1.00 18.30 1.00 19.10 1.00 21.69 1.00 23.52 1.00 25.02 1.00 24.93 1.00 26.65 1.00 28.49 1.00 31.26	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10027 10028 10029 10030 10031 10032 10033 10034 10035 10036 10037 10038 10040 10041 10042 10043 10044	C O N CA CB CC O N CA CB CC CD CC	TYR TYR GLN GLN GLN GLN GLN GLN MET MET MET MET MET MET	526 526 527 527 527 527 527 527 527 528 528 528 528 528 528	102. 540 103. 600 101. 676 101. 901 102. 417 101. 462 101. 935 103. 016 101. 121 100. 556 99. 519 100. 575 99. 346 99. 076 98. 575 98. 325 96. 628 99. 458	36. 770 36. 536 37. 680 38. 417 39. 833 40. 740 42. 188 42. 502 43. 079 38. 477 38. 439 38. 532 38. 608 37. 295 36. 178 34. 650 34. 772 39. 720	52. 609 53. 187 53. 024 54. 250 53. 978 53. 213 52. 707 53. 771 54. 930 54. 269 56. 253 57. 018 57. 748 56. 859 57. 776 58. 155 58. 033	1. 00 16. 76 1. 00 15. 11 1. 00 17. 09 1. 00 17. 75 1. 00 16. 32 1. 00 15. 60 1. 00 16. 43 1. 00 13. 50 1. 00 15. 38 1. 00 19. 32 1. 00 19. 02 1. 00 20. 93 1. 00 21. 02 1. 00 23. 54 1. 00 23. 54 1. 00 26. 01 1. 00 20. 94	B B B B B B B B B B B	C O N C C C C C C C C C C C C C C C C C

					FI	G. 4	- 206	<b>.</b>		(Continued)
	400.0	_								
ATOM	10045	0 N	MET		100.47				В	0
ATOM ATOM	10046 10047	N CA	ILE ILE	529 529	98. 432				В	N
ATOM	10047	CB	ILE	529 529	98. 428 97. 718				В	C
ATOM	10049		2 ILE	529	97. 656				В	C
ATOM	10050		ILE	529	98. 469				B B	C
ATOM	10051	CD		529	99. 934		57. 537		В	C C
ATOM	10052	C	ILE	529	97. 656			1.00 20.15	В	Č
ATOM	10053	0	ILE	529	96. 457				В	Ö
ATOM	10054	N	LEU	530	98. 359		61.302		В	Ň
ATOM	10055	CA	LEU	530	97. 717		62. 420		B	Ĉ
ATOM	10056	CB	LEU	530	98.649		62.976	1.00 19.85	B	č
ATOM	10057	CG	LEU	530	99.086		61.931	1.00 19.34	В	C
ATOM	10058		LEU	530	100. 238	37.027	62.461	1.00 20.33	В	C
ATOM	10059		LEU LEU	530	97. 897		61.562	1.00 19.04	В	C
ATOM	10060	C	LEU	530	97. 294		63. 521	1.00 22.34	В	C .
ATOM	10061	0	LEU	530	98. 006		63. 854	1.00 23.45	В	0
ATOM ATOM	10062 10063	N	PRO	531	96. 104		64. 088	1.00 23.19	В	N
ATOM	10064	CD CA	PRO PRO	531 531	95. 105		63. 711	1.00 22.71	В	C C C
ATOM	10065	CB	PRO	531	95. 600 94. 188		65. 169	1.00 24.33	В	C
ATOM	10066	CG	PRO	531	94. 176		65. 404 64. 967	1.00 22.74	В	C
ATOM	10067	č	PRO	531	96. 490		66. 407	1.00 23.03 1.00 25.18	В	
ATOM	10068	ŏ	PRO	531	97. 244		66. 562	1.00 23.18	B B	C 0
ATOM	10069	N	PRO	532	96. 424		67. 300	1.00 24.04	В	N
ATOM	10070	CD	PRO	532	95. 502		67. 326	1.00 25.36	В	Č
ATOM	10071	CA	PR <sub>0</sub>	532	97. 246		68. 513	1.00 27.91	B	č
ATOM	10072	CB	PRO	532	96.868		69.216	1.00 27.08	B	č
ATOM	10073	CG	PRO	532	95. 443		68.793	1.00 26.25	В	Č
ATOM	10074	C	PRO	532	96. 945		69.369	1.00 29.25	В	C
ATOM	10075	0	PRO	532	95. 865		69.279	1.00 29.62	В	0
ATOM	10076	N	HIS	533	97. 909	40. 756	70.187	1.00 30.65	В	N
ATOM ATOM	10077 10078	CA	HIS HIS	533	97. 738	39.602	71.061	1.00 31.99	В	C
ATOM	10079	CB CG	HIS	533 533	96. 749	39. 945	72.172	1.00 32.50	В	C
ATOM	10080		HIS	533	96. 981 96. 168	41. 293	72. 783	1.00 35.12	В	C
ATOM	10081		HIS	533	98. 181	42. 370 41. 653	72. 903 73. 358	1.00 36.18	В	C
ATOM	10082		HIS	533	98. 096	42. 892	73. 807	1.00 35.49 1.00 36.37	В	N
ATOM	10083	NE2	HIS	533	96. 885	43. 350	73. 544	1.00 30.37	B B	C N
ATOM	10084	C	HIS	533	97. 249	38. 382	70. 286	1.00 37.01	В	C
ATOM	10085	0	HIS	533	96.447	37. 590	70. 791	1.00 32.78	В	Ö
ATOM	10086	N	PHE	534	97. 739	38. 243	69.058	1.00 33.50	В	N
ATOM	10087	CA	PHE	534	97. 374	37. 125	68. 200	1.00 34.63	В	Č
ATOM	10088	CB	PHE	534	98. 283	37.085	66.970	1.00 32.35	B	Č
ATOM	10089	CG	PHE	534	97. 997	35.942	66.041	1.00 32.06	В	Č
ATOM	10090	CD1		534	96. 790	35. 871	65.354	1.00 32.10	В	C
ATOM	10091	CD2		534 534	98. 936	34. 938	65. 848	1.00 32.66	В	C
ATOM ATOM	10092 10093	CE1 CE2		534 534	96. 522	34. 819	64. 486	1.00 31.59	В	C
VI OM	10029	CC2	rnc	534	98. 679	33. 879	64. 982	1.00 32.91	В	C

					<b>.</b>		(Continued)
					F I G. 4 -	207	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10094 10095 10096 10097 10098 10099 10100 10101	CZ C O N CA CB CG	PHE PHE PHE ASP ASP ASP ASP ASP	534 534 534 535 535 535 535		64. 298	B C B O B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM	10102 10103 10104 10105 10106 10107	OD2 C O N CA CB	ASP ASP ASP LYS LYS LYS	535 535 535 536 536 536	96. 372 31. 494 96. 159 32. 601 95. 047 32. 540 97. 135 31. 746 96. 964 30. 680 98. 302 30. 001	71. 125	B
ATOM ATOM ATOM ATOM ATOM	10108 10109 10110 10111 10112 10113	CG CD CE NZ C	LYS LYS LYS LYS LYS LYS	536 536 536 536 536 536	99. 657     28. 577       99. 624     27. 800       98. 648     26. 676       95. 937     29. 620       95. 577     28. 785	65. 355	B C B C B N B C B O
ATOM ATOM ATOM ATOM ATOM ATOM	10114 10115 10116 10117 10118 10119	N CA CB OG C	SER SER SER SER SER SER	537 537 537 537 537 537	94. 469 28. 681 (94. 598 28. 438 94. 434 29. 636 793. 064 29. 179 (92. 103 28. 412 6	69. 296	B N B C B C B O B C B O
ATOM ATOM ATOM ATOM ATOM ATOM	10120 10121 10122 10123 10124 10125	N CA CB CG CD CE	LYS LYS LYS LYS LYS LYS	538 538 538 538 538 538	91. 666 31. 067 6 91. 629 32. 517 6 92. 298 32. 747 7 91. 534 32. 100 7	68. 674	B N B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM	10126 10127 10128 10129 10130 10131	NZ C O N CA CB	LYS LYS LYS LYS LYS LYS	538 538 538 539 539	89. 417 32. 121 7 91. 507 31. 028 6 92. 464 30. 754 6 90. 299 31. 288 6 90. 038 31. 302 6	72. 636	B N B C B O B N B C B C
ATOM ATOM ATOM ATOM ATOM ATOM	10132 10133 10134 10135 10136 10137	CG CD CE NZ C	LYS LYS LYS LYS LYS LYS	539 539 539 539 539 539	89. 736 28. 887 6 88. 757 27. 739 6 87. 720 28. 059 6 86. 644 28. 969 6 89. 504 32. 666 6	64. 143       1. 00       36. 07         63. 893       1. 00       39. 32         62. 816       1. 00       39. 62         63. 310       1. 00       39. 49         64. 471       1. 00       31. 07	B C B C B C B N B C B C
ATOM ATOM ATOM ATOM ATOM	10138 10139 10140 10141 10142	N CA CB CG CD1	TYR TYR TYR TYR TYR	540 540 540 540 540	90. 274 33. 356 6 89. 893 34. 682 6 91. 096 35. 624 6 91. 849 35. 702 6	63. 633       1. 00       27. 48       1         63. 165       1. 00       24. 82       1         63. 178       1. 00       23. 82       1         64. 482       1. 00       23. 61       1	B N B C B C B C B C

	(Continued)									
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10143 10144 10145 10146 10147 10148 10150 10151 10152 10153 10154 10155 10156 10157 10158 10159 10160	CD2 CE2 CZ OH C O N CD CA CB CG C O N CA CB	TYR TYR TYR TYR TYR TYR PRO PRO PRO PRO PRO PRO LEU LEU LEU	540 540 540 540 540 540 541 541 541 541 541 541 542 542 542 542	93. 321 91. 810 92. 507 93. 261 93. 950 89. 335 89. 670 88. 457 87. 820 87. 917 86. 770 87. 243 89. 077 90. 026 89. 028 90. 133 91. 027 92. 215	34. 708 36. 863 36. 955 35. 875 35. 965 34. 694 33. 842 35. 660 36. 667 35. 719 36. 717 37. 629 36. 266 36. 799 36. 147 36. 655 35. 483	66. 130 65. 257 66. 449 66. 881 68. 062 61. 749 60. 925 61. 452 62. 320 60. 095 60. 228 61. 317 59. 276 59. 841 57. 961 57. 169 56. 741 55. 816	1. 00 21. 65 1. 00 22. 89 1. 00 22. 77 1. 00 22. 87 1. 00 23. 97 1. 00 23. 62 1. 00 23. 93 1. 00 21. 89 1. 00 21. 22 1. 00 20. 52 1. 00 20. 30 1. 00 20. 36 1. 00 19. 86 1. 00 19. 86 1. 00 19. 38 1. 00 18. 21 1. 00 18. 98 1. 00 19. 24	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10161 10162 10163 10164 10165 10166 10167 10168 10169 10170 10171 10172 10173 10174 10175	CD1 CD2 C O N CA CB CG CD1 CD2 C O N CA	LEU	542 542 542 542 543 543 543 543 543 543 544 544 544	93. 296 91. 741 89. 677 88. 720 90. 368 90. 075 89. 816 89. 568 88. 317 89. 409 91. 273 92. 349 91. 091 92. 191 92. 006	35. 768 34. 721 35. 775 37. 458 37. 087 38. 564 39. 430 40. 872 41. 892 41. 497 43. 294 39. 415 39. 893 38. 866 38. 807 37. 609		1. 00 19. 24 1. 00 17. 89 1. 00 19. 31 1. 00 18. 08 1. 00 14. 81 1. 00 13. 79 1. 00 12. 33 1. 00 13. 71 1. 00 9. 91 1. 00 11. 87 1. 00 14. 35 1. 00 14. 04 1. 00 15. 02 1. 00 16. 19 1. 00 16. 34	B B B B B B B B B B B B B B B B B B B	C C C C C C C C C C C C C C C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10176 10177 10178 10179 10180 10181 10182 10183 10184 10185 10186 10187 10188 10189 10190 10191			544 544 544 545 545 545 545 545 546 546	93. 163 94. 345 92. 713 92. 276 91. 437 93. 280 93. 515 94. 479 94. 703 94. 285 95. 304 94. 175 95. 235 93. 567 94. 116 93. 199	37. 231 36. 752 36. 128 40. 109 40. 374 40. 925 42. 186 43. 069 44. 434 44. 641 45. 304 41. 757 41. 135 42. 098 41. 667 40. 579	49. 608 50. 429 48. 654 50. 679 49. 819 50. 997 50. 306 51. 117 50. 483 49. 324 51. 144 49. 004 49. 014 47. 881 46. 614 46. 014	1. 00 14. 93 1. 00 15. 36 1. 00 15. 79 1. 00 16. 49 1. 00 17. 02 1. 00 15. 13 1. 00 14. 91 1. 00 15. 71 1. 00 15. 88 1. 00 14. 36 1. 00 15. 41 1. 00 14. 61 1. 00 13. 17 1. 00 15. 03 1. 00 17. 39 1. 00 19. 44	B B B B B B B B B B B B B B B B B B B	C C C O N C C C O O C O O C C

	(Continued)									
ATOM ATOM ATOM ATOM	10192 10193 10194 10195 10196	CG2 C O N	VAL VAL VAL TYR	546 546 546 547	93. 717 93. 109 94. 343 93. 601 95. 391	39. 410 42. 722 43. 694 42. 519	46. 983 45. 542 45. 447 44. 745	1.00 17.87 1.00 20.93 1.00 17.09 1.00 18.12 1.00 15.70	B B B B	C C C O N
ATOM ATOM ATOM ATOM ATOM ATOM	10197 10198 10199 10200 10201 10202 10203	CE1 CD2	TYR TYR TYR TYR TYR TYR TYR	547 547 547 547 547	95. 670 96. 838 97. 008 98. 064 98. 165 96. 057 96. 149	44. 335 45. 241 45. 063 45. 839 46. 226	43. 821 42. 622 41. 727	1.00 14.90 1.00 12.56 1.00 12.84 1.00 12.01 1.00 9.97 1.00 11.82 1.00 8.62	· B B B B B B	C C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	10204 10205 10206 10207 10208 10209	CZ OH C O N CA	TYR TYR TYR TYR ALA ALA	547 547 547 547 547 548 548	97. 204 97. 304 96. 011 95. 244 97. 170 97. 594	46.804	40. 314 39. 179 42. 485 41. 548 42. 608 41. 672	1.00 8.62 1.00 10.60 1.00 12.10 1.00 13.60 1.00 13.39 1.00 13.66 1.00 14.14	B B B B B	C C O C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	10210 10211 10212 10213 10214 10215	CB C O N CA C	ALA ALA ALA GLY GLY GLY	548 548 548 549 549 549	96. 658 97. 732 97. 681 97. 905 98. 078 99. 405	39. 518 41. 105 40. 234 42. 386 42. 765 42. 209	41. 807 40. 207 39. 340 39. 913 38. 524 38. 046	1.00 11.57 1.00 13.67 1.00 14.21 1.00 13.87 1.00 12.26 1.00 12.16	B B B B B	C C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM	10216 10217 10218 10219 10220 10221	O N CD CA CB	GLY PRO PRO PRO PRO PRO	549 550 550 550 550 550	100. 179 99. 700 98. 853 100. 969 100. 863 99. 391	41. 717 42. 256 42. 760 41. 736 42. 007 42. 015	38. 855 36. 739 35. 644 36. 217 34. 721 34. 473	1.00 12.33 1.00 13.98 1.00 12.99 1.00 13.32 1.00 14.56 1.00 14.10	B B B B	O N C C C C
ATOM ATOM ATOM ATOM ATOM ATOM	10222 10223 10224 10225 10226 10227	C 0	PRO PRO	550 550 551 551 551 551	102. 166 102. 248	42. 459 43. 683	36. 832 36. 785	1. 00 13. 86 1. 00 13. 45 1. 00 14. 79 1. 00 15. 51 1. 00 17. 05 1. 00 17. 09	B B B B B	C O N C C S
ATOM ATOM ATOM ATOM ATOM ATOM	10228 10229 10230 10231 10232 10233	C O N CA CB	CYS CYS SER SER SER SER	551 551 552 552 552 552	103. 967 104. 693 102. 883 102. 494 100. 990 100. 604	43. 018 43. 938 42. 631 43. 268 43. 149 41. 789	39. 312 39. 702 39. 976 41. 229 41. 425 41. 427	1.00 16.05 1.00 15.36 1.00 15.15 1.00 14.65 1.00 14.47 1.00 14.39	B B B B B	C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10234 10235 10236 10237 10238 10239 10240	C O N CA CB CG	SER SER GLN GLN GLN GLN GLN	552 552 553 553 553 553 553	103. 201 103. 882 103. 048 103. 654 105. 138 105. 852 107. 359	42. 608 41. 585 43. 201 42. 647 43. 017 42. 332 42. 585	42. 418 42. 273 43. 594 44. 794 44. 892 46. 056 46. 090	1.00 15.21 1.00 15.34 1.00 14.73 1.00 14.31 1.00 13.21 1.00 15.05 1.00 15.66	B B B B B	C O N C C C C

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					ות	G 4.	210			(Continued)
ATOM	10241	O₽1	GLN	EEO					D	0
ATOM	10241		GLN GLN	553 553	107. 812 108. 138	43. 686 41. 556	46.400	1.00 16.56	В	0 N
ATOM	10242	C	GLN	553	103. 136	43. 166	45. 773	1.00 15.50 1.00 14.58	В	N
ATOM	10244	Õ	GLN	553	102. 321	43. 100	46. 012 46. 434	1.00 14.58	В	C
ATOM	10245	N	LYS	554	103. 148	44. 255	46. 568		В	0 N
ATOM	10246	CA	LYS	554 554	102.031	42. 734	40. 506	1.00 14.78	В	N C
ATOM	10247	CB	LYS	554	99. 817	42. 134	47. 633	1.00 16.57	В	C
ATOM	10248	CG	LYS	554	99. 031	42. 316	46. 630	1.00 17.81 1.00 18.63	В	C
ATOM	10249	CD	LYS	554	99. 047	43. 142	47. 000	1.00 18.55	B B	C
ATOM	10250	CE	LYS	554	98. 228	44. 902	48. 261	1.00 18.33	В	C C
ATOM	10251	NZ	LYS	554	96. 769	44. 771	48. 035	1.00 18.33	В	N N
ATOM	10252	C	LYS	554	101.890	42.148	49. 024	1.00 15.35	В	C
ATOM	10253	ŏ	LYS	554	101. 424	42. 429	50. 124	1.00 10.03	В	0
ATOM	10254	Ň	ALA	555	102. 939	41.350	48. 866	1.00 15.91	В	N N
ATOM	10255	CA	ALA	555	103. 622	40. 730	50.004	1.00 15.84	В	C
ATOM	10256	CB	ALA	555	103. 656	39. 210	49. 833	1.00 15.54	В	C
ATOM	10257	C	ALA	555	105.041	41. 246	50. 142	1.00 14.91	В	Č
ATOM	10258	Ö	ALA	555	105.954	40. 691	49. 539	1.00 15.57	В	Õ
ATOM	10259	N	ASP	556	105. 233	42. 304	50. 924	1.00 16.20	В	N
<b>ATOM</b>	10260	CA	ASP	556	106. 571	42.854	51. 134	1.00 16.65	В	Č
ATOM	10261	CB	ASP	556	106. 801	44.085	50. 243	1.00 17.94	В	č
ATOM	10262	CG	ASP	556	105. 750	45. 159	50. 430	1.00 19.95	В	č
ATOM	10263	OD1		556	105.355	45.429	51. 583	1.00 22.16	В	Ö
ATOM	10264	OD2	ASP	556	105.327	45.751	49.415	1.00 21.01	B	Ö
ATOM	10265	C	ASP	556	106.862	43. 202	52. 597	1.00 16.87	B	Č
ATOM	10266	0	ASP	556	106.046	42.962	53.480	1.00 15.15	В	0
ATOM	10267	N	THR	557	108.039	43.762	52.847	1.00 17.93	В	N
ATOM	10268	CA	THR	557	108. 443	44.132	54. 200	1.00 18.07	В	C
ATOM	10269	CB	THR	557	109. 923	43.826	54. 396	1.00 18.59	В	C
ATOM	10270	0G1	THR	557	110.687	44. 589	53. 454	1.00 20.98	В	0
ATOM	10271	CG2		557	110. 188	42.358	54. 157	1.00 19.55	В	C
ATOM	10272	C	THR	557	108. 203	45.616	54. 531	1.00 17.89	В	C
ATOM	10273	0	THR	557	108. 776	46. 151	55.479	1.00 16.94	В	0
ATOM	10274	N	VAL	558	107. 348	46. 272	53. 754	1.00 16.56	В	N
ATOM	10275	CA	VAL	558	107. 049	47. 682	53. 964	1.00 14.93	В	C
ATOM ATOM	10276	CB	VAL	558	106. 483	48. 302	52.676	1.00 14.99	В	C
	10277	CG1		558	106. 033	49. 733	52. 940	1.00 13.18	В	C
ATOM ATOM	10278	CG2		558	107. 544	48. 247	51.568	1.00 13.02	В	C
ATOM	10279 10280	C 0	VAL	558	106. 058	47. 921	55. 109	1.00 15.99	В	C
ATOM	10280	N	VAL PHE	558 550	105.060	47. 211	55. 238	1.00 13.36	В	0
ATOM	10282	CA	PHE	559 550	106. 348	48. 923	55.941	1.00 15.43	В	N
ATOM	10283	CB	PHE	559 559	105. 484 106. 303	49. 269 49. 933	57.069 58.173	1.00 14.56 1.00 12.72	В	C
ATOM	10284	CG	PHE	559	100. 303	50. 504	59. 282	1.00 12.72	В	C
ATOM	10285	CD1		559	105. 409	49.712	60. 347	1.00 11.04	B R	C
ATOM	10286	CD2		559	105.054	51.833	59. 244	1.00 10.05	B B	C
ATOM	10287	CE1		559	103. 030	50. 232	61.356	1.00 12.10	В	C C
ATOM	10288	CE2		559	104. 251	52. 360	60. 252	1.00 10.43	В	C
ATOM	10289		PHE	559	103. 855	51.554	61.307	1.00 8.93	В	Č
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					FIC	G. 4	211			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10290 10291 10292 10293 10294 10295 10296 10297 10298 10300 10301 10302 10303 10304 10305 10306 10307 10308 10309 10310 10311 10312 10313 10314 10315 10316 10317 10318 10319 10320 10321 10322 10323	O N CA CB CCD NE CZ NH1 NH2 C O N CA CB CCD1 CD2 C O N CA CB CCD1 ND2 C O N CA CB CCC O N CA CB CC CCC O N CA CB CC CC	ARG ARG ARG LEU LEU LEU LEU LEU LEU ASN ASN ASN	559 560 560 560 560 560 561 561 561 562 562 562 563 563 563	F I C 104. 395 104. 696 103. 137 102. 029 101. 354 102. 248 101. 491 102. 322 103. 126 103. 203 103. 887 100. 962 100. 661 100. 403 99. 325 99. 626 100. 694 100. 901 100. 275 98. 114 97. 987 97. 222 96. 071 96. 462 96. 924 97. 566 96. 582 94. 818 94. 712 93. 872 92. 616 91. 770 90. 365 89. 623	50. 230 51. 255 49. 907 50. 744 50. 117 49. 988 49. 421 48. 486 48. 828 50. 090 47. 915 50. 100 52. 183 52. 551 53. 875 53. 875 53. 875 53. 875 53. 875 53. 734 51. 748 51. 748 51. 267 49. 823 49. 309 49. 157 51. 139 50. 936 50. 936 50. 936 50. 936 50. 132 49. 719 48. 721		1. 00 14. 21 1. 00 14. 64 1. 00 13. 77 1. 00 14. 06 1. 00 12. 20 1. 00 11. 36 1. 00 10. 73 1. 00 13. 38 1. 00 14. 76 1. 00 19. 68 1. 00 16. 46 1. 00 14. 74 1. 00 16. 54 1. 00 13. 62 1. 00 13. 55 1. 00 11. 68 1. 00 12. 53 1. 00 12. 53 1. 00 12. 59 1. 00 10. 30 1. 00 12. 69 1. 00 15. 06 1. 00 14. 07 1. 00 14. 26 1. 00 15. 38 1. 00 11. 43 1. 00 14. 89 1. 00 15. 38 1. 00 15. 35 1. 00 15. 35 1. 00 15. 35 1. 00 15. 58 1. 00 15. 58 1. 00 15. 58 1. 00 15. 58	B B B B B B B B B B B B B B B B B B B	C O N C C C C N C N N C O N C C C C C C
ATOM ATOM ATOM	10324 10325 10326	CE2 CE3 CD1	TRP TRP TRP	563 563 563	88. 330 89. 927 89. 512	48. 684 47. 856 50. 237	55. 369 53. 745 56. 456	1.00 13.17 1.00 10.64 1.00 13.99	B B B B	C C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10327 10328 10329 10330 10331 10332 10333 10334 10335 10336 10337	NE1 CZ2 CZ3 CH2 C O N CA CB C	TRP TRP	563 563 563 563 563 564 564 564 564	93. 790 94. 124 95. 216 94. 585	49. 617 47. 816 46. 995 46. 980 48. 919 48. 562 48. 161 46. 841 46. 186 46. 973 46. 127	56. 373 54. 911 53. 290 53. 872 57. 119 58. 132 56. 515 57. 042 56. 197 58. 489 59. 320	1. 00 14. 03 1. 00 13. 35 1. 00 9. 50 1. 00 12. 48 1. 00 16. 18 1. 00 15. 81 1. 00 17. 44 1. 00 17. 65 1. 00 16. 15 1. 00 18. 07 1. 00 18. 92	B B B B B B B B	N C C C C O N C C C
ATOM	10338	Ň	THR	565		48. 037	58. 793	1. 00 17. 73	В	N

					FΙ	G. 4	212			(Continued)
ATOM	10339	CA	THR		95. 817			1.00 17.29	В	C
ATOM ATOM	10340 10341	CB OG1	THR THR		96. 626 97. 677			1.00 17.13	В	C
ATOM	10341		THR		97. 238			1.00 20.36 1.00 18.23	B B	0
ATOM	10343	C	THR		94. 665			1.00 15.23	В	C C
ATOM	10344	ŏ	THR		94. 738			1.00 13.84	В	0
ATOM	10345	Ň	TYR		93. 605		60. 781	1.00 14.07	В	N N
ATOM	10346	CA	TYR		92. 455			1.00 17.74	В	Č
ATOM	10347	CB	TYR		91. 543		61. 177	1.00 15.61	В	č
ATOM	10348	ĊĠ	TYR		90.067		61.311	1.00 17.40	В	č
ATOM	10349		TYR		89. 303		60. 195	1.00 17.77	В	č
ATOM	10350		TYR		87.947		60.310	1.00 15.12	B	č
ATOM	10351		TYR		89. 432		62.556	1.00 18.30	B	Č
ATOM	10352	CE2	TYR	566	88.073		62.682	1.00 17.35	В	Č
ATOM	10353	CZ	TYR	566	87. 340		61.550	1.00 17.10	В	Č
ATOM	10354	OH	TYR	566	86.005	49. 137	61.662	1.00 17.63	В	0
ATOM	10355	C	TYR	566	91.667		61.777	1.00 19.12	В	C
ATOM	10356	0	TYR	566	91. 249		62.871	1.00 20.12	В	0
ATOM	10357	N	LEU	567	91.481		60.654	1.00 19.08	В	N
ATOM	10358	CA	LEU	567	90. 735		60.648	1.00 19.66	В	C
ATOM	10359	CB	LEU	567	90.606		59. 223	1.00 18.00	В	C
ATOM	10360	CG	LEU	567	89. 728	46. 252	58. 284	1.00 18.48	В	C C C
ATOM	10361		LEU	567	89.735		56.889	1.00 19.22	В	C
ATOM	10362		LEU	567	88. 310		58. 835	1.00 15.78	В	C
ATOM ATOM	10363	C	LEU	567	91.355	44. 898	61.544	1.00 20.80	В	
ATOM	10364 10365	O N	LEU	567	90.645	44. 102	62. 157	1.00 23.88	В	0
ATOM	10366	CA	ALA ALA	568 568	92. 677	44. 883	61.628	1.00 19.62	В	N
ATOM	10367	CB	ALA	568	93. 347	43. 898	62.466	1.00 20.08	В	C
ATOM	10368	CD	ALA	568	94. 746 93. 451	43. 601 44. 362	61.907	1.00 18.06	В	C
ATOM	10369	ŏ	ALA	568	93. 319	43. 569	63. 924 64. 849	1.00 20.52 1.00 20.37	В	C
ATOM	10370	N	SER	569	93. 674	45. 653	64. 128	1.00 20.37	В	0
ATOM	10371	CA	SER	569	93. 827	46. 182		1.00 20.79	B B	N C
ATOM	10372	CB	SER	569	94. 520	47. 545	65. 401	1.00 21.75	В	C
ATOM	10373	0G	SER	569	94. 546	48. 188	66.657	1.00 22.64	В	0
<b>ATOM</b>	10374	C	SER	569	92. 525	46. 297	66. 267	1.00 22.83	В	Č
ATOM	10375	0	SER	569	92. 505	46.029	67.470	1.00 22.38	В	ŏ
ATOM	10376	N	THR	570	91.444	46.679	65. 589	1.00 22.26	B	N
ATOM	10377	CA	THR	570	90.153	46.862	66.232	1.00 21.45	B	Ċ
ATOM	10378	CB	THR	570	89.512	48.191	65.797	1.00 19.91	B	č
ATOM	10379		THR	570	90. 349	49. 285	66.188	1.00 21.12	В	0
ATOM	10380		THR	570	88. 143	48.351	66.430	1.00 17.96	В	C
ATOM	10381	C	THR	570	89. 132	45.751	65.974	1.00 24.43	В	Č
ATOM	10382	0	THR	570	88. 453	45.301	66.894	1.00 27.79	В	0
ATOM	10383	N	GLU	571	89.001	45.317	64.727	1.00 23.34	В	N
ATOM	10384		GLU	571	88. 030	44. 280	64. 415	1.00 21.95	В	C
ATOM	10385	CB	GLU	571	87. 499	44. 481	62.998	1.00 22.83	В	C
ATOM	10386		GLU	571	87. 004	45.888		1.00 24.63	В	C
ATOM	10387	CD	GLU	571	85. 957	46.357	63. 696	1.00 25.17	В	С

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					FIC	G. 4-	213			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10388 10389 10390 10391 10392 10393 10394	OE2 C O N CA CB	GLU GLU GLU GSN ASN ASN	571 571 571 571 572 572 572	85. 236 85. 834 88. 606 87. 903 89. 887 90. 539 89. 998	42. 874 41. 887 42. 784 41. 491 40. 744	64. 258 63. 897 64. 554 64. 362 64. 894 65. 043 66. 255	1.00 28.12 1.00 26.28 1.00 21.35 1.00 19.91 1.00 22.55 1.00 21.58 1.00 23.76	B B B B B	0 0 C 0 N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10395 10396 10397 10398 10399 10400 10401 10402		ASN ASN ASN ASN ILE ILE ILE	572 572 572 572 572 573 573	90. 523 90. 053 91. 522 90. 347 90. 112 90. 445 90. 311 89. 509	42. 335 40. 634	67. 552 68. 035 68. 121 63. 806 63. 903 62. 645 61. 365 60. 382	1. 00 27. 80 1. 00 30. 34 1. 00 30. 31 1. 00 21. 12 1. 00 20. 16 1. 00 19. 59 1. 00 18. 06 1. 00 18. 14	B B B B B B	C O N C O N C C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10403 10404 10405 10406 10407 10408 10409	CG2 CG1 CD1 C O N CA	ILE ILE ILE ILE ILE ILE ILE	573 573 573 573 573 574 574	89. 371 88. 143 87. 336 91. 706 92. 480 92. 038 93. 340	40. 735 41. 778 42. 735 40. 425 41. 376 39. 216 38. 978	59. 057 60. 970 60. 131 60. 777 60. 739 60. 337 59. 724	1. 00 18. 53 1. 00 19. 49 1. 00 20. 04 1. 00 18. 47 1. 00 19. 08 1. 00 17. 57 1. 00 18. 02	B B B B B	C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10410 10411 10412 10413 10414 10415 10416 10417	CG1	ILE ILE ILE ILE ILE VAL VAL	574 574 574 574 574 574 575	93. 724 94. 950 94. 004 94. 330 93. 298 92. 444 94. 217 94. 254	40. 296	59. 740 58. 870 61. 172 61. 282 58. 265 57. 500 57. 876 56. 498	1. 00 19. 09 1. 00 20. 13 1. 00 21. 02 1. 00 20. 47 1. 00 17. 84 1. 00 19. 48 1. 00 17. 13 1. 00 16. 42	B B B B B	C C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10418 10419 10420 10421 10422 10423 10424	CB CG1 CG2 C O N CA	VAL VAL VAL VAL ALA ALA	575 575 575 575 575 576 576	94. 354 94. 271 93. 242 95. 452 96. 592 95. 186 96. 246	42. 308 42. 753 42. 948 40. 187 40. 488 39. 344 38. 683	56. 430 54. 985 57. 261 55. 786 56. 124 54. 797 54. 056	1. 00 16. 55 1. 00 16. 06 1. 00 15. 54 1. 00 16. 02 1. 00 16. 68 1. 00 16. 21 1. 00 15. 22	B B B B B	C C C C O N C
ATOM ATOM ATOM ATOM ATOM ATOM	10425 10426 10427 10428 10429 10430 10431	CB C O N CA CB	ALA ALA SER SER SER SER	576 576 576 577 577 577	96. 062 96. 330 95. 397 97. 470 97. 722 98. 368 97. 456	37. 176 39. 117 39. 710 38. 811 39. 123 40. 495 41. 504	54. 127 52. 601 52. 046 51. 996 50. 606 50. 474 50. 866	1. 00 12. 38 1. 00 15. 92 1. 00 16. 20 1. 00 14. 35 1. 00 13. 57 1. 00 13. 58 1. 00 16. 22	B B B B	C C O N C C
ATOM ATOM ATOM ATOM ATOM	10432 10433 10434 10435 10436	C O N CA CB	SER SER PHE PHE PHE	577 577 578 578 578	98. 642 99. 497 98. 462 99. 262 98. 418	38. 045 37. 522 37. 712 36. 676 35. 407	50. 069 50. 788 48. 800 48. 183 48. 079	1.00 13.24 1.00 13.05 1.00 11.98 1.00 11.24 1.00 11.42	B B B B	C O N C C

										(Continued)
					FIC	3.4·	214			(Convinuou)
ATOM	10437	CG	PHE	578	99. 136	34. 232	47. 481	1.00 10.60	В	С
ATOM	10438		PHE	578		33. 628	48. 152	1.00 10.29	B	č
ATOM	10439	CD2	PHE	578		33.679	46. 280	1.00 10.36	B	
ATOM	10440	CE1	PHE	578		32.483	47.640	1.00 11.15	В	C C
ATOM	10441		PHE	578	99. 297	32.537	45.762	1.00 11.72	В	C
ATOM	10442	CZ	PHE	578	100.354	31.936	46.446	1.00 10.87	В	C
ATOM	10443	C	PHE	578	99. 746	37.096	46.805	1.00 10.56	В	С
ATOM	10444	0	PHE	578	99. 002	37. 704	46. 039	1.00 10.76	В	0
ATOM	10445	N	ASP	579	101.005	36. 780	46.516	1.00 11.14	В	N
ATOM	10446	CA	ASP	579	101.617	37.069	45. 227	1.00 9.94	В	C
ATOM	10447	CB	ASP	579	103.008	37. 682	45. 401	1.00 9.15	В	C
ATOM	10448	CG	ASP	579	102.957	39.090	45. 954	1.00 13.00	В	C
ATOM ATOM	10449 10450		ASP	579 570	102.053	39. 842	45. 532	1.00 14.87	В	0
ATOM	10450	C	ASP ASP	579 579	103.816 101.734	39. 451 35. 741	46. 796 44. 488	1.00 11.19	В	0
ATOM	10451	Ö	ASP	579	102. 633	34. 927	44. 753	1.00 11.60 1.00 12.07	B B	C 0
ATOM	10453	N	GLY	580	100. 809	35. 510	43. 570	1.00 12.07	В	N N
ATOM	10454	CA	GLY	580	100.838	34. 274	42. 815	1.00 11.96	В	C
ATOM	10455	C	GLY	580	101.458		41. 450	1.00 13.34	B	č
ATOM	10456	0	GLY	580	102. 269	35. 376	41. 227	1.00 12.96	B	ŏ
ATOM	10457	N	ARG	581	101.080	33.611	40. 521	1.00 14.18	B	Ň
ATOM	10458	CA	ARG	581	101.615	33.714	39. 187	1.00 15.34	В	C
ATOM	10459	CB	ARG	581	101.085	32.570	38. 338	1.00 13.67	В	С
ATOM	10460	CG	ARG	581	101.809	31.283	38. 666	1.00 15.30	В	С
ATOM	10461	CD	ARG	581	101.172	30.076	38. 023	1.00 14.62	В	С
	10462	NE CZ	ARG	581	99. 980	29.652	38. 740	1.00 13.01	В	N
ATOM ATOM	10463 10464	CZ	ARG ARG	581	99.186	28. 672	38. 330	1.00 13.69	В	Ç
ATOM	10465	NH1	ARG	581 581	99. 467 98. 112	28. 024	37. 207	1.00 13.99	В	N
ATOM	10466	C	ARG	581	101.237	28. 348 35. 069	39. 036 38. 624	1.00 12.41 1.00 17.21	В	N C
ATOM	10467	ŏ	ARG	581	100. 175	35.615	38. 934	1.00 17.21	B B	C 0
ATOM	10468	Ň	GLY	582	102.128	35. 628	37.817	1.00 17.30	В	N N
ATOM	10469	CA	GLY	582	101.868			1.00 17.73	В	Č
ATOM	10470	C	GLY	582	102.454		38. 159	1.00 16.81	В	č
ATOM	10471	0	GLY	582	102.557	39.151		1.00 18.98	B	Ŏ
ATOM		N	SER	583	102.835	37.625	39. 378	1.00 15.90	В	N
ATOM		CA	SER	583	103. 423	38.588	40.309	1.00 16.60	В	C
ATOM	10474	CB	SER	583	103.437	38.024		1.00 17.47	В	C
ATOM	10475	OG	SER	583	104. 229			1.00 21.54	В	0
ATOM	10476	C	SER	583	104. 841	38. 901		1.00 15.56	В	C
ATOM ATOM	10477	0 N	SER	583	105.389	38.176		1.00 17.79	В	0
ATOM	10478 10479	N CA	GLY GLY	584 584	105.441	39.970		1.00 14.64	В	N
ATOM	10479	CA	GLY	584 584	106. 776 107. 969			1.00 13.05 1.00 12.28	B B	C C
ATOM	10481	ŏ	GLY	, 584	107. 851			1.00 12.28	В	0
ATOM		Ň	TYR	585	109.129			1.00 11.78	В	N N
		CA	TYR	585	110.412			1.00 12.19	B	Č
ATOM	10484	CB	TYR	585	110.335		_	1.00 11.93	B	č
ATOM	10485	CG	TYR	585		42.719		1.00 12.41	В	C
					SUBSTITUTE	SHEET	(RULE 26	)		

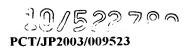
										(Continued)
					FIG	. 4 -	2 1 5			(Continued)
ATOM	10486		TYR	585	110.370	43.694	41. 297	1.00 12.30	В	C
ATOM	10487		TYR	585	109.756	44.891	40.979	1.00 12.43	В	C
ATOM	10488		TYR	585	108.408	42.983	42.478	1.00 10.95	В	C
ATOM	10489		TYR	585	107. 783	44.179	42. 167	1.00 12.28	В	C
ATOM	10490	CZ	TYR	585	108. 459	45.126	41.418	1.00 13.31	В	C
ATOM	10491	OH	TYR	585	107. 831	46.306	41.109	1.00 14.33	В	0
ATOM	10492	C	TYR	585	110.883	39. 141	41.394	1.00 12.01	В	C
ATOM	10493	0	TYR	585	111.673	38. 979	42. 319	1.00 13.01	В	0
ATOM	10494	N	GLN	586	110.413	38. 144	40.655	1.00 11.45	В	N
ATOM	10495	CA	GLN	586	110. 787	36. 763	40.906	1.00 11.62	В	C
ATOM	10496	CB	GLN	586	109.639	36.071	41.641	1.00 10.30	В	C
ATOM	10497	CG	GLN	586	109. 178	36. 854	42.867	1.00 14.38	В	C
ATOM	10498	CD	GLN	586	107. 749	36. 533	43. 295	1.00 15.38	В	C
ATOM	10499		GLN	586	107. 468	35. 452	43.816	1.00 12.14	В	0
ATOM	10500		GLN	586	106.835	37. 478	43.060	1.00 15.36	В	N
ATOM	10501	C	GLN	586	111.118	36. 023	39.602	1.00 12.85	В	C
ATOM	10502	0 N	GLN	586	111. 173	34. 786	39. 574	1.00 13.97	В	0 N
ATOM ATOM	10503 10504	N CA	GLY GLY	587 587	111.336 111.641	36. 778 36. 168	38. 525 37. 242	1.00 11.70	B B	N C
ATOM	10504	C	GLY	587	110. 405	35. 960	36. 373	1.00 11.61 1.00 14.10	В	C C
ATOM	10506	Ö	GLY	587	109. 302	35. 786	36. 884	1.00 14.10	В	Ö
ATOM	10507	N	ASP	588	110. 595	35. 949	35.054	1.00 15.91	В	N N
ATOM	10508	CA	ASP	588		35. 776	34. 105	1.00 10.19	В	C
ATOM	10509	CB	ASP	588		35. 993	32.680	1.00 18.98	В	Č
ATOM	10510	CG	ASP	588		37. 312	32.505	1.00 20.57	В	č
ATOM	10511		ASP	588	110. 236	38. 335	33.040	1.00 23.28	В	ŏ
ATOM	10512		ASP	588	111. 738	37. 327	31.809	1.00 23.25	B	ŏ
<b>ATOM</b>	10513	C	ASP	588	108. 723	34.454	34. 139	1.00 17.46	B	č
<b>ATOM</b>	10514	0	ASP	588	107.608	34.389	33.635	1.00 16.74	B	0
ATOM	10515	N	LYS	589	109. 294	33.397	34.697	1.00 18.02	B	N
ATOM	10516	CA	LYS	589	108.559	32.143	34.734	1.00 20.00	В	С
ATOM	10517	CB	LYS	589	109.383	31.030	35.372	1.00 22.21	В	С
ATOM	10518	CG	LYS	589	108.633	29.710	35.443	1.00 27.16	В	С
ATOM	10519	CD	LYS	589		28. 579	35.940	1.00 32.47	В	C
ATOM	10520	CE	LYS	589		27. 273	36.111	1.00 33.79	В	С
ATOM	10521	NZ	LYS	589		26. 232	36.771	1.00 35.98	В	N
ATOM	10522	C	LYS	589		32. 362	35. 536	1.00 20.94	В	С
ATOM	10523	0	LYS	589		31. 781	35. 242	1.00 23.79	В	0
ATOM	10524	N	ILE	590		33. 212	36. 552	1.00 18.06	В	N
ATOM	10525	CA	ILE	590		33. 523	37. 379	1.00 14.07	В	C
ATOM	10526	CB	ILE	590		33. 901	38.814	1.00 11.33	В	C
ATOM	10527		ILE	590		34. 654	39.538	1.00 9.61	В	C
ATOM ATOM	10528 10529	CG1		590		32.635	39. 585	1.00 10.89	В	C
ATOM	10529	CD1 C	ILE	590 590		32. 888 34. 682	40. 897 36. 753	1.00 7.05 1.00 15.70	B	C
ATOM	10530	0	ILE	590 590		34. 583	36. 511	1.00 15.70	B B	C 0
ATOM	10531	N	MET	591		35. 774	36. 465	1.00 15.31	В	N N
ATOM	10532	CA	MET	591		36. 948	35. 907	1.00 13.00	В	C
ATOM	10534	CB	MET	591		38. 088	35. 759	1.00 14.13	В	C
				551	100.012	0				J

					וב ז <i>ו</i>	G = A	- 9 1 6			(Continued)
<b>.</b>	405						- 216			
ATOM ATOM	10535 10536		MET MET		105.854				В	C
ATOM	10536		MET		107.027				В	S
ATOM	10538		MET		107. 813 104. 788				В	C
ATOM	10539		MET		104. 788				В	C
ATOM	10540	N	HIS		105. 045	36. 022			В	0
ATOM	10541	CA	HIS		104. 863	35. 725			В	N C
ATOM	10542	CB	HIS		105. 962	35. 424			B B	C
ATOM	10543	CG	HIS	592	106. 753	36. 626		1.00 13.14	В	C C
ATOM	10544		HIS	592	106.626	37. 933	31. 252		В	C
ATOM	10545		HIS	592	107. 810	36. 555		1.00 17.20	В	N N
ATOM	10546		HIS	592	108. 300	37. 765			В	C
ATOM	10547		HIS	592	107. 598	38. 620		1.00 16.88	В	N
ATOM	10548	С	HIS	592	103.859	34. 569		1.00 15.17	В	Č
ATOM	10549	0	HIS	592	103. 224	34. 274	31.344	1.00 15.89	B	ŏ
ATOM	10550	N	ALA	593	103. 708	33. 917	33. 500	1.00 15.86	В	N
ATOM	10551	CA	ALA	593	102.775	32.810	33.615	1.00 14.02	B	Ċ
ATOM	10552	CB	ALA	593	102.690	32.353	35.060	1.00 13.60	B	č
ATOM	10553	C	ALA	593	101.393	33. 195	33.106	1.00 15.66	B	Č
ATOM	10554	0	ALA	593	100. 647	32.335	32.631	1.00 17.83	В	0
ATOM	10555	N	ILE	594	101.043	34. 478	33. 207	1.00 16.63	В	N
ATOM	10556	CA	ILE	594	99. 731	34. 945	32.745	1.00 16.87	В	C
ATOM	10557	CB	ILE	594	99. 035	35.857	33. 791	1.00 15.87	В	C
ATOM	10558		ILE	594	98. 506	35.017	34. 932	1.00 16.36	В	C
ATOM	10559		ILE	594	100.006	36. 915	34. 321	1.00 16.86	В	C
ATOM	10560		ILE	594	100. 533	37. 882	33. 274	1.00 16.67	В	C
ATOM	10561	C	ILE	594	99. 748	35. 689	31.413	1.00 17.96	В	C
ATOM ATOM	10562	0 N	ILE	594	98. 884	36. 525	31.160	1.00 19.03	В	0
ATOM	10563 10564	N	ASN	595 505	100.718	35. 385	30. 558	1.00 17.93	В	N
ATOM	10565	CA CB	ASN	595 505	100. 802	36.050	29. 263	1.00 19.09	В	C
ATOM	10566	CG	ASN ASN	595 505	102.140	35. 737	28. 592	1.00 19.22	В	Ċ
ATOM	10567		ASN	595 595	102. 291	36. 441	27. 260	1.00 19.91	В	C
ATOM	10568			595	102.320	37.668	27. 198	1.00 19.01	В	0
ATOM	10569	C	ASN	595	102. 377 99. 659	35.667	26. 184	1.00 19.95	В	N
ATOM	10570	ŏ	ASN	595	99. 456	35. 641 34. 460	28. 330	1.00 19.09	В	C
ATOM	10571	N	ARG	596	98. 933	36. 630	28.076	1.00 19.31	В	0
ATOM	10572	CA	ARG	596	97. 799	36. 406	27. 814 26. 911	1.00 19.66	В	N
ATOM	10573	CB	ARG	596	98. 212	35. 588	25.677	1.00 20.07 1.00 17.78	В	C
ATOM	10574	ĊĠ	ARG	596	99. 233	36. 247	24. 756	1.00 17.78	В	C
ATOM	10575	CD	ARG	596	99.655	35. 296	23.636	1.00 17.20	B B	C
ATOM	10576	NE	ARG	596	98. 553	34. 982	22. 728	1.00 17.14	В	C N
ATOM	10577	CZ	ARG	596	98. 102	35. 816	21. 795	1.00 19.85	В	C
ATOM	10578	NH1	ARG	596	98. 671	37. 005	21.640	1.00 21.47	В	N
ATOM	10579	NH2	ARG	596	97.060	35. 486	21.045	1.00 18.12	В	N
ATOM	10580	C	ARG	596	96.692	35. 655	27. 632	1.00 21.03	B	C
ATOM	10581		ARG	596	95. 731	35. 213	27.005	1.00 22.67	В	Ŏ
ATOM	10582		ARG	597		35. 529	28.948	1.00 20.90	B	N
ATOM	10583	CA	ARG	597		34.770	29.714	1.00 20.85	B	Ċ

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					<b>D.</b> C. C.					(Continued)
					FIG	i. 4 -	217			
ATOM ATOM ATOM	10584 10585 10586	CB CG CD	ARG ARG ARG	597 597 597	96. 437 95. 850 95. 913	33. 414 32. 257 32. 520	30. 078 29. 300 27. 810	1.00 23.88 1.00 31.40 1.00 34.67	B B B	C C C
ATOM ATOM	10587 10588	NE CZ	ARG ARG	597 597	95. 006 94. 776	31.660 31.792	27. 059 25. 759	1.00 35.49 1.00 35.98	B B	N C
ATOM	10589	NH1	ARG	597	95. 386	32.748	25.075	1.00 35.20	В	N
ATOM ATOM	10590 10591	NH2 C	ARG ARG	597 597	93. 933	30.974	25. 145	1.00 39.12	В	N
ATOM	10591	0	ARG	597	95. 292 94. 981	35. 429 34. 739	30. 976 31. 945	1.00 18.83 1.00 17.54	B B	C 0
ATOM	10593	Ň	LEU	598	95. 175	36. 751	30.964	1.00 16.66	B	Ň
ATOM	10594	CA	LEU	598	94. 678	37. 477	32. 125	1.00 15.71	В	C
ATOM ATOM	10595 10596	CB CG	LEU LEU	598 598	94. 482 95. 523	38. 959 39. 990	31.769 32.248	1.00 12.95 1.00 12.69	В	C
ATOM	10597		LEU	598	96. 939	39. 473	32. 106	1.00 12.09	B B	C ·
ATOM	10598		LEU	598	95.361	41. 267	31.466	1.00 9.68	B	č
ATOM	10599	C	LEU	598	93. 369	36. 870	32.642	1.00 17.19	В	C
ATOM ATOM	10600 10601	O N	LEU GLY	598 599	92. 533 93. 207	36. 398 36. 864	31. 863 33. 961	1.00 17.25 1.00 16.06	В	0 N
ATOM	10601	CA	GLY	599	91. 997	36. 328	34. 547	1.00 16.00	B B	N C
ATOM	10603	C	GLY	599	91.987	34.824	34. 735	1.00 17.37	B	č
ATOM	10604	0	GLY	599	90. 921	34. 221	34. 843	1.00 17.28	В	0
ATOM ATOM	10605 10606	N CA	THR THR	600 600	93. 164 93. 247	34. 213 32. 775	34. 786	1.00 17.73	В	N
ATOM	10607	CB	THR	600	93. 823	32. 773	34. 972 33. 722	1.00 17.95 1.00 18.93	B B	C C
ATOM	10608		THR	600	95. 185	32. 495	33. 530	1.00 17.74	В	Õ
ATOM	10609		THR	600	93.000	32.463	32. 491	1.00 17.48	В	С
ATOM	10610	C	THR	600	94. 087	32. 384	36. 183	1.00 19.93	В	C
ATOM ATOM	10611 10612	O N	THR PHE	600 601	93. 574 95. 382	32. 285 32. 177	37. 295 35. 971	1.00 21.69 1.00 21.11	B B	0 N
ATOM	10613	CA	PHE	601	96. 279	31. 768	37. 048	1.00 21.11	В	C
ATOM	10614	CB	PHE	601	97.686	31.542	36. 494	1.00 20.77	В	č
ATOM	10615	CG	PHE	601	97. 757	30. 452	35. 475	1.00 21.75	В	С
ATOM ATOM	10616 10617		PHE PHE	601 601	98.676	30. 513 29. 366	34. 439	1.00 23.50	В	C
ATOM	10618		PHE	601	96. 896 98. 731	29. 502	35. 539 33. 474	1.00 21.83 1.00 24.75	B B	C C
ATOM	10619		PHE	601	96. 949	28. 356	34. 581	1.00 22.61	В	Č
ATOM	10620	CZ	PHE	601	97.868	28.427	33. 547	1.00 20.03	B	С
ATOM	10621	C	PHE	601	96. 346	32. 710	38. 244	1.00 21.61	В	C
ATOM ATOM	10622 10623	O N	PHE GLU	601 602	96. 437 96. 312	32. 247 34. 018	39. 386 37. 997	1.00 23.03 1.00 20.14	В	0
ATOM	10624	CA	GLU	602	96. 374	34. 976	39. 097	1.00 20.14	B B	N C
ATOM	10625	CB	GLU	602	96. 505	36. 422	38. 581	1.00 16.90	B	č
ATOM	10626	CG	GLU	602	95. 193	37. 072	38. 135	1.00 17.16	В	C
ATOM ATOM	10627 10628	CD OE1	GLU GLU	602 602	94. 857 94. 930	36. 847	36.661	1.00 17.31	В	C
ATOM	10629		GLU	602	94. 930 94. 505	35. 696 37. 830	36. 184 35. 981	1.00 18.92 1.00 16.38	B B	0 0
ATOM	10630	C	GLU	602	95. 111	34. 838	39. 952	1.00 18.97	В	Č
ATOM	10631	0	GLU	602	95. 170	34. 953	41.179	1.00 18.54	В	0
ATOM	10632	N	VAL	603	93. 979	34. 584	39. 296	1.00 19.02	В	N



					0.1.0			(Continued)
				FIG. 4	- 218			
ATOM	10633	CA VAL	603	92.696 34.4	13 39.984	1.00 21.62	В	С
ATOM	10634	CB VAL	603	91.513 34.4		1.00 21.51	В	C
ATOM	10635	CG1 VAL	603	90. 233 34. 0		1.00 19.24	В	С
ATOM	10636	CG2 VAL	603	91.380 35.8		1.00 21.00	В	С
ATOM	10637	C VAL	603	92.643 33.0		1.00 22.35	В	С
ATOM	10638	0 VAL	603	92.160 32.98		1.00 21.06	В	0
ATOM	10639	N GLU	604	93.141 32.03		1.00 22.98	В	N
ATOM	10640	CA GLU	604	93. 182 30. 70		1.00 26.04	В	С
ATOM	10641	CB GLU	604	93.721 29.68		1.00 28.46	В	С
ATOM	10642	CG GLU	604	92.956 29.6		1.00 35.94	В	C
ATOM	10643	CD GLU	604	93. 559 28. 74		1.00 40.17	В	C
ATOM	10644	OE1 GLU	604	93. 215 28. 9		1.00 40.47	В	0
ATOM	10645	OE2 GLU	604	94. 360 27. 8		1.00 41.61	В	0
ATOM	10646	C GLU	604	94.072 30.70	05 41.905	1.00 24.63	В	C
ATOM	10647	0 GLU	604	93.657 30.25	55 42.976	1.00 25.47	В	0
ATOM	10648	N ASP	605	95. 286 31. 23		1.00 22.17	В	N
ATOM	10649	CA ASP	605	96. 213 31. 2	55 42.900	1.00 21.12	В	C C C
ATOM	10650	CB ASP	605	97.568 31.89	27 42. 463	1.00 23.09	В	С
ATOM	10651	CG ASP	605	98. 263 30. 9		1.00 24.43	В	
ATOM	10652	OD1 ASP	605	97. 894 29. 7		1.00 26.59	В	0
ATOM	10653	OD2 ASP	605	99. 188 31. 49		1.00 25.60	В	0
ATOM	10654	C ASP	605	95.712 31.90		1.00 19.42	В	С
ATOM	10655	0 ASP	605	96.099 31.59		1.00 19.67	В	0
ATOM	10656	N GLN	606	94.868 32.98		1.00 17.23	В	N
ATOM	10657	CA GLN	606	94. 337 33. 67		1.00 16.41	В	C
ATOM	10658	CB GLN	606	93.576 34.98		1.00 17.09	В	С
ATOM	10659	CG GLN	606	94. 407 36. 07		1.00 15.81	В	С
ATOM	10660	CD GLN	606	95. 332 36. 74		1.00 15.36	В	C
ATOM	10661	OE1 GLN	606	94. 879 37. 28		1.00 13.19	В	0
ATOM	10662	NE2 GLN	606	96. 637 36. 73		1.00 14.39	В	N
ATOM	10663	C GLN	606	93.360 32.70		1.00 15.71	В	C
ATOM	10664	0 GLN	606	93. 337 32. 58		1.00 14.30	В	0
ATOM	10665	N ILE	607	92. 549 32. 03		1.00 13.95	В	N
ATOM	10666	CA ILE	607	91.584 31.07		1.00 13.95	В	C
ATOM	10667	CB ILE	607	90.772 30.43		1.00 12.90	В	C C C C
ATOM	10668	CG2 ILE	607	89. 925 29. 29		1.00 11.78	В	C
ATOM	10669	CG1 ILE	607	89.909 31.50		1.00 12.90	В	C
ATOM ATOM	10670	CD1 ILE	607	89.162 31.01		1.00 11.00	В	C
ATOM	10671 10672	C ILE	607	92.330 29.98		1.00 15.04	В	C
ATOM	10672	O ILE N GLU	607 608	92. 008 29. 67 93. 331 29. 41		1.00 15.40 1.00 16.29	В	0 N
ATOM	10674	CA GLU	608	93. 331 29. 41 94. 144 28. 35		1.00 10.29	B B	N C
ATOM	10675	CA GLU	608	95. 180 27. 86		1.00 18.46	В	C
ATOM	10676	CG GLU	608	96. 164 26. 85		1.00 18.14	В	C C
ATOM	10677	CD GLU	608	95. 498 25. 55		1.00 22.43	В	C
ATOM	10678	OE1 GLU	608	96. 096 24. 81		1.00 23.00	В	0
ATOM	10679	OE2 GLU	608	94. 382 25. 27		1.00 32.32	В	0
ATOM	10680	C GLU	608	94. 848 28. 88		1.00 20.58	В	Č
ATOM	10681	0 GLU	608	95. 114 28. 13		1.00 23.01	В	ŏ
			•				_	-

ATOM

10730

CA

615

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#### (Continued) FIG. 4-219 10682 609 95.150 ATOM ALA 30.183 47.506 1.00 19.99 N **ATOM** 10683 ALA 609 95.811 30.789 CA 48.646 1.00 21.28 C В 96.269 10684 1.00 19.81 **ATOM** ALA 609 32.196 48.310 C CB B 94.826 **ATOM** 10685 609 30.819 49.797 1.00 21.63 C C ALA В ATOM 10686 0 **ALA** 609 95.152 30.426 50.915 1.00 21.88 0 В ATOM 93.618 31.286 1.00 23.07 10687 ALA 610 49.516 N В N **ATOM** 10688 92.580 CA ALA 610 31.358 50.535 1.00 25.56 В C 31.963 ATOM 10689 CB **ALA** 610 91.317 49.957 1.00 25.38 В C 92.300 29.952 1.00 26.13 **ATOM** 10690 C **ALA** 610 51.024 В C **ATOM** 10691 0 92.256 29.694 52.223 1.00 25.97 ALA 610 B 0 **ATOM** 10692 ARG 611 92.119 29.044 50.073 1.00 28.12 N В N **ATOM** 91.838 50.374 10693 CA ARG 611 27.647 1.00 28.88 В C **ATOM** 10694 CB ARG 91.886 26.826 49.087 1.00 27.27 611 В **ATOM** 10695 CG ARG 91.518 25.372 49.260 611 1.00 28.40 C B **ATOM** 10696 CD 91.547 ARG 24.668 47.925 1.00 30.54 611 C В **ATOM** 10697 NE ARG 90.501 25.152 47.028 611 1.00 33.73 В N **ATOM** 10698 ARG CZ 611 90.628 25.223 45.706 1.00 36.39 В C 45.129 **ATOM** 10699 NH1 ARG 91.764 24.848 1.00 38.00 611 В N **ATOM** 10700 NH2 ARG 89.615 611 25.645 44.956 1.00 37.15 B N **ATOM** 10701 **ARG** 92.826 27.082 C 611 51.391 1.00 29.24 В C **ATOM** 10702 0 ARG 611 92.446 26.330 52.287 1.00 30.51 В 0 **ATOM** 10703 N 94.092 **GLN** 612 27.452 51.260 1.00 30.24 B N **ATOM** 10704 CA GLN 612 95.105 26.965 52.182 1.00 30.75 B C ATOM 10705 GLN 96.491 51.532 CB 612 27.029 1.00 29.62 B C ATOM 10706 CG GLN 612 96.738 25.866 50.581 1.00 31.27 В C ATOM 10707 CD GLN 612 98.183 25.741 50.150 1.00 32.19 C B ATOM 10708 OE1 GLN 612 99.097 25.778 50.979 1.00 32.20 B 0 ATOM 10709 NE2 GLN 612 98.400 25.578 48.848 1.00 31.86 В N **ATOM** 10710 C GLN 612 95.109 27.691 53.524 1.00 31.36 В C 1.00 32.39 54.545 ATOM 10711 0 **GLN** 612 95.441 27.095 В 0 **ATOM** 10712 N PHE 613 94.740 28.969 53.533 1.00 31.39 В N **ATOM** 10713 CA PHE 29.717 613 94.705 54.784 1.00 30.50 В C **ATOM** 10714 94.527 CB PHE 613 31.217 54.538 1.00 30.43 В C 10715 **ATOM** CG PHE 613 95.651 31.853 53.775 1.00 31.06 C В 96.974**ATOM** 10716 CD1 PHE 613 31.532 54.058 1.00 32.48 C В **ATOM** 10717 CD2 PHE 95.385 613 32.805 52.796 1.00 30.25 C B CE1 PHE 98.024 **ATOM** 10718 613 32.156 53.371 1.00 32.97 В C **ATOM** 10719 CE2 PHE 613 96.419 33.432 52.109 1.00 31.17 C В ATOM 10720 CZ PHE 97.742 33.109 613 52.394 1.00 32.13 C B 10721 **ATOM** PHE 93.531 C 613 29.214 55.607 1.00 30.36 В C **ATOM** 10722 PHE 0 613 93.572 29. 216 56.830 1.00 28.96 В 0 ATOM 10723 SER 614 92.478 28.786 N 54.923 1.00 31.88 В N **ATOM** 10724 91.292 CA SER 614 28.286 55.600 1.00 34.43 В C **ATOM** 10725 SER CB 614 90.141 28.104 54.607 1.00 34.30 В C 10726 **ATOM** 0G SER 614 90.419 27.055 53.697 1.00 34.39 В 0 **ATOM** 10727 C SER 614 91.609 26.953 56.264 1.00 35.74 В C ATOM 10728 SER 614 90.908 0 26.519 57.178 1.00 37.21 В 0 ATOM 10729 LYS 615 N 92.670 26.307 55.797 1.00 36.52 В N LYS

25.030 **SUBSTITUTE SHEET (RULE 26)** 

56.350

1.00 37.25

В

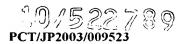
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					FIC	j. 4 -	220			
ATOM	10731	CB	LYS	615	93. 781	24. 196	55. 283	1.00 37.94	В	С
ATOM	10732	CG	LYS	615	92.839	23.516	54. 293	1.00 40.25	В	C
ATOM	10733	CD	LYS	615	93. 595	23. 050	53.053	1.00 42.18	В	C
ATOM	10734	CE	LYS	615	94. 883	22. 317	53.419	1.00 42.76	В	C
ATOM	10735	NZ	LYS	615	95. 776	22. 147	52. 237	1.00 43.07	В	N
ATOM	10736	C	LYS	615	94.001	25. 231	57. 544	1.00 37.98	В	C
ATOM	10737	0	LYS	615	94. 379	24. 275	58. 217	1.00 40.67	В	0
ATOM	10738	N	MET	616	94. 373	26. 474	57.809	1.00 37.04	В	N
ATOM ATOM	10739 10740	CA	MET MET	616	95. 240	26. 744	58. 948	1.00 36.91	В	C
ATOM	10740	CB CG	MET	616 616	96. 021 97. 042	28. 047 27. 961	58. 738	1.00 36.80	В	C
ATOM	10741	SD	MET	616	97. 042	29. 532	57. 613 57. 282	1.00 36.28	В	C S C
ATOM	10743	CE	MET	616	99. 135	29. 023	56. 125	1.00 40.04 1.00 35.34	В	2
ATOM	10744	C	MET	616	94. 370	26. 817	60. 200	1.00 35.34	В В	
ATOM	10745	ŏ	MET	616	93. 181	27. 143	60. 130	1.00 35.52	В	C 0
ATOM	10746	Ň	GLY	617	94. 973	26. 514	61.343	1.00 33.32	В	N N
ATOM	10747	CA	GLY	617	94. 233	26.505	62.587	1.00 31.05	В	Č
ATOM	10748	C	GLY	617	93. 584	27. 783	63.072	1.00 29.42	В	Č
ATOM	10749	0	GLY	617	92.516	27. 729	63. 689	1.00 30.60	B	ŏ
ATOM	10750	N	PHE	618	94. 202	28.926	62.797	1.00 26.74	B	Ň
ATOM	10751	CA	PHE	618	93.676	30. 204	63. 271	1.00 25.54	B	Ċ
ATOM	10752	CB	PHE	618	94.852	31.118	63.636	1.00 26.06	B	Č
ATOM	10753	CG	PHE	618	95. 898	31.216	62.563	1.00 25.52	В	Č
ATOM	10754		PHE	618	95. 763	32.127	61.523	1.00 25.78	В	С
ATOM	10755		PHE	618	97.012	30. 385	62.588	1.00 25.30	В	С
ATOM	10756		PHE	618	96. 726	32. 214	60. 518	1.00 26.10	В	C
ATOM ATOM	10757		PHE	618	97. 981	30. 459	61.590	1.00 26.94	В	С
ATOM	10758 10759	CZ	PHE PHE	618	97. 836	31. 380	60. 549	1.00 27.08	В	C
ATOM	10759	C 0	PHE	618	92. 706	30. 948	62.353	1.00 24.88	В	C
ATOM	10761	N	VAL	618 619	92. 319 92. 297	32. 079	62.644	1.00 24.17	В	0
ATOM	10762	CA	VAL	619		30. 313 30. 947	61.259 60.324	1.00 24.78	В	N
ATOM	10763	CB	VAL	619	91. 913	30. 876	58. 875	1. 00 25. 04 1. 00 25. 17	В	C
ATOM	10764		VAL	619		31.665	57.945	1.00 23.17	В	C
ATOM	10765		VAL	619		31.415	58. 817	1.00 26.33	B B	C C
ATOM	10766	C	VAL	619		30. 303	60. 371	1.00 25.53	В	C
ATOM	10767	0	VAL	619		29.083	60.378	1.00 25.84	В	ŏ
ATOM	10768	N	ASP	620		31.146	60.405	1.00 26.00	B	Ň
ATOM	10769	CA	ASP	620	87. 601	30.701	60.449	1.00 26.41	B	Č
ATOM	10770	CB	ASP	620	86. 779	31.717	61.238	1.00 26.64	B	Č .
ATOM	10771	CG	ASP	620		31. 334	61.355	1.00 27.36	В	Č
ATOM	10772	OD1		620		32.074	62.041	1.00 27.95	В	0
ATOM	10773	OD2		620		30. 306	60. 765	1.00 26.86	В	0
ATOM	10774	C	ASP	620		30.610	59.011	1.00 27.59	В	C
ATOM ATOM	10775	0 N	ASP	620		31.610	58. 435	1.00 27.47	В	0
ATOM ATOM	10776 10777	N CA	ASN ASN	621 621		29. 409	58. 438	1.00 29.06	В	N
ATOM	10778	CB	ASN	621		29. 213		1.00 30.04	В	C
ATOM	10779		ASN	621	_	27. 752 26. 782		1.00 33.33	В	C
	10110	-		021	00.044	26. 782	57. 377	1.00 36.94	В	C

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#### (Continued) FIG. 4-221 ATOM 10780 OD1 ASN 621 84.795 26.940 57.415 1.00 38.23 0 ATOM 10781 ND2 ASN 621 86.630 25.763 57.972 1.00 39.37 В N **ATOM** 10782 C **ASN** 621 85.310 29.639 56.756 1.00 29.63 B C 10783 ATOM 0 ASN 621 84.887 29.626 55.604 1.00 30.93 В 0 10784 N LYS 622 84.563 ATOM 30.007 57.787 1.00 28.32 B N 10785 CA LYS 622 1.00 27.00 **ATOM** 83.195 30.441 57.573 В C **ATOM** 10786 CB LYS 622 82.303 29.986 58.740 1.00 29.24 B C 10787 CG ATOM LYS 622 82.062 58.738 28. 471 1.00 32.47 В 81.029 **ATOM** 10788 CD LYS 622 28.002 59.761 1.00 33.84 B C ATOM 10789 CE LYS 622 81.527 28.099 61.197 1.00 35.48 B C 10790 NZ LYS 29.501 **ATOM** 622 81.571 61.703 1.00 36.73 B N **ATOM** 10791 LYS 622 83.168 31.957 57.404 1.00 25.42 B C 10792 **ATOM** 0 LYS 622 82.145 32.543 57.047 1.00 26.19 В 0 **ATOM** 10793 N **ARG** 623 84.314 32.583 57.642 1.00 21.83 B N ATOM 10794 CA ARG 623 84.436 34.023 57.515 1.00 18.89 В C 10795 ATOM CB ARG 623 84.380 34.664 58.895 1.00 17.53 В C ATOM 10796 CG ARG 623 83.019 34.573 59.510 1.00 16.79 В C ATOM 10797 CD ARG 623 83.122 34.394 60.991 1.00 19.29 C В 10798 **ATOM** NE **ARG** 623 83.405 35.632 61.690 1.00 19.11 В N 10799 **ATOM** CZ **ARG** 623 84.207 35.718 62.743 1.00 18.68 В C ATOM 10800 NH1 ARG 623 84.812 34.639 63.212 1.00 16.76 В N **ATOM** 10801 84.388 NH2 ARG 623 36.884 63.336 1.00 22.60 В N **ATOM** 10802 C **ARG** 623 85.711 34.440 56. 792 1.00 18.21 В C ATOM 10803 0 **ARG** 623 86.719 34.776 57.414 1.00 19.54 В 0 10804 **ATOM** N ILE 624 85.651 34.412 55.468 1.00 16.09 В N **ATOM** 10805 CA ILE 624 86.769 34.798 54.629 1.00 16.59 В C ATOM 10806 CB ILE 87.439 624 33.572 53.991 1.00 18.45 В C **ATOM** 10807 CG2 ILE 624 88.563 34.017 53.059 1.00 18.66 C В **ATOM** 10808 CG1 ILE 624 87.971 32.647 55.088 1.00 19.91 В C 10809 ATOM. CD1 ILE 624 88.623 31.385 54.564 1.00 22.12 C В ATOM 10810 86.230 C ILE 624 35.695 53.519 1.00 16.74 В **ATOM** 10811 0 ILE 624 85.402 35.268 52.710 1.00 17.92 В 0 **ATOM** 10812 N **ALA** 625 86.688 36.939 53.494 1.00 15.06 В N **ATOM** 10813 86.250 CA ALA 625 37.886 52.488 1.00 15.59 В C 10814 **ATOM** CB ALA 625 85.816 39.174 53.155 1.00 18.31 В C **ATOM** 10815 C ALA 625 87.375 38.159 51.503 1.00 16.90 C В **ATOM** 10816 0 ALA 625 88.431 37.523 51.558 1.00 16.49 B 0 **ATOM** 10817 N ILE 626 87.149 39.107 50.598 1.00 16.75 В N **ATOM** 10818 CA ILE 626 88.158 39.454 49.608 1.00 17.73 В C **ATOM** 10819 CB ILE 626 88.207 38.397 48.478 1.00 19.21 B C CG2 ILE **ATOM** 10820 626 86.883 38.365 47.742 1.00 19.01 B C 10821 **ATOM** CG1 ILE 626 89.348 38.713 47.511 1.00 18.94 В C ATOM 10822 CD1 ILE 626 89.576 37.642 46.471 1.00 20.78 В C ATOM 10823 $\mathbb{C}$ ILE 626 87.850 40.810 49.003 1.00 17.46 C В **ATOM** 10824 0 ILE 626 86.692 41.116 48.754 1.00 18.15 В 0 **ATOM** 10825 N TRP 627 88.878 41.628 48.781 1.00 16.65 В N 10826 **ATOM** CA TRP 627 88.663 42.938 48.177 1.00 15.95 В C ATOM 10827 CB TRP 627 88.215 43.945 49.231 1.00 14.07 В C 10828 ATOM CG TRP 627 89.318 44.713 49.875 Ċ 1.00 12.00 B



(Continued) FIG. 4-222 49.646 C 10829 CD2 TRP 627 89.641 46.084 1.00 11.41 B **ATOM** Č CE2 TRP 627 90.725 50.500 1.00 10.99 **ATOM** 10830 46.410 В C CE3 TRP 47.074 48.806 627 89.121 1.00 9.75 B **ATOM** 10831 C CD1 TRP 627 90.198 44.267 50.826 1.00 14.55 В **ATOM** 10832 **ATOM** 10833 NE1 TRP 627 91.046 45.283 51.208 1.00 10.25 В N CZ2 TRP 91.289 47.681 50.536 1.00 C 10834 9.06 **ATOM** 627 В C CZ3 TRP 89.685 48.340 48.844 1.00 9.47 10835 В **ATOM** 627 49.702 CH2 TRP C **ATOM** 10836 627 90.755 48.632 1.00 8.43 В 43.489 47.433 1.00 17.27 10837 TRP 627 89.881 В C **ATOM** C 91.027 47.732 43.146 1.00 16.96 B 0 10838 TRP 627 **ATOM** 0 89.613 44.351 **ATOM** 10839 **GLY** 628 46.459 1.00 16.52 В N N 90.672 44.947 45.675 **ATOM** 10840 CA **GLY** 628 1.00 16.52 B C 90.186 46.198 44.975 1.00 17.44 C **ATOM** 10841 C **GLY** В 628 **ATOM** 10842 **GLY** 628 88.977 46.441 44.887 1.00 17.88 0 0 B 91.132 46.989 44.479 1.00 15.93 10843 **ATOM** N TRP 629 B N 629 90.841 48.235 43.781 1.00 15.93 В C **ATOM** 10844 CA TRP 49.395 C **ATOM** 10845 TRP 629 91.480 44.552 1.00 13.57 В CB **ATOM** 90.867 50.763 44.341 1.00 14.96 C 10846 TRP 629 CG B **ATOM** 90.389 51.656 45.360 C 10847 CD2 TRP 629 1.00 13.15 В 10848 CE2 TRP 52.830 44.712 1.00 13.17 C **ATOM** 629 89.944 B 1.00 14.07 **ATOM** 10849 CE3 TRP 629 90.296 51.577 46.758 C B 10850 CD1 TRP 629 90.694 51.419 43.149 1.00 14.45 C **ATOM** В **ATOM** 10851 NE1 TRP 629 90.141 52.657 43.366 1.00 12.77 В N **ATOM** CZ2 TRP 629 89.411 53.921 45.414 1.00 13.59 10852 C B **ATOM** 10853 CZ3 TRP 629 -89.767 52.660 47.461 1.00 14.81 В C 1.00 15.16 **ATOM** 10854 CH2 TRP 629 89.330 53.820 46.782 C В **ATOM** 10855 C TRP 629 91.481 48.074 42.399 1.00 17.34 C B 92.571 42.285 ATOM 10856 0 TRP 629 47.517 1.00 18.55 В 0 **ATOM** 10857 N SER 630 90.802 48.538 41.354 1.00 17.70 В N ATOM 10858 **SER** 630 91.309 48.430 39.982 1.00 17.70 CA В C **ATOM** 10859 CB **SER** 630 92.649 49.144 39.846 1.00 18.19 В C **ATOM** 10860 92.574 1.00 24.67 0G SER 630 50.437 40.404 B 0 91.477 46.977 ATOM 10861 C **SER** 630 39.563 1.00 17.40 B C 46.235 90.501 **ATOM** 10862 0 SER 630 39.469 1.00 18.69 В 0 92.712 1.00 16.34 ATOM 10863 N **TYR** 631 46.565 39.304 B N 45.192 92.951 38.904 ATOM 10864 TYR 631 1.00 15.96 CA C В 44.973 **ATOM** 10865 **TYR** 94.430 38.579 CB 631 1.00 15.36 В C ATOM 10866 CG **TYR** 631 94.689 43.709 37.779 1.00 15.93 C В **ATOM** 10867 CD1 TYR 94.626 42.450 38.380 631 1.00 15.38 C B CE1 TYR 41.287 37.634 **ATOM** 10868 631 94.830 1.00 16.25 В C **ATOM** 43.773 36.409 10869 CD2 TYR 631 94.961 1.00 15.67 B C ATOM 10870 CE2 TYR 631 95.160 42.620 35.655 1.00 13.59 В C **ATOM** 41.384 10871 CZ**TYR** 631 95.092 36.270 1.00 15.96 C В 10872 95.264 40.243 35.525 1.00 14.59 **ATOM** OH TYR 631 B 0 **ATOM** 10873 C **TYR** 631 92.499 44.286 40.049 1.00 15.68 C В 39.824 10874 **TYR** 631 91.949 43.213 1.00 16.42 ATOM 0 В 0 41.281 1.00 15.56 **ATOM** 10875 N **GLY** 632 92.723 44.729 В N 632 92.292 ATOM 10876 CA GLY 43.950 42.429 1.00 14.43 В C

SUBSTITUTE SHEET (RULE 26)

43.807

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1.00 13.07

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**GLY** 

10877

ATOM

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										(Continued)
					FIC	G. 4-	223			(Continued)
									_	•
ATOM	10878	0	GLY	632	90. 239	42. 771	42.777	1.00 12.09	В	0
ATOM	10879	N	GLY	633	90.087	44. 855	41.946	1.00 12.57	В	N
ATOM	10880	CA	GLY	633	88. 637	44. 800	41.846	1.00 10.88	В	C
ATOM	10881	C	GLY	633	88. 271	43. 743	40.818	1. 00 10. 78	В	C
ATOM	10882	0	GLY	633	87. 337	42. 956	40. 986	1.00 9.26	В	0
ATOM	10883	N	TYR	634	89.031	43. 729	39. 734	1.00 11.33	В	N
ATOM	10884	CA	TYR	634	88. 822	42. 755	38. 682	1.00 11.09	В	C
ATOM	10885	CB	TYR	634	89.860	42. 951	37. 595	1.00 7.35	В	C
ATOM	10886	CG	TYR	634	89.815	41. 899	36. 526	1.00 8.04	В	C
ATOM	10887		TYR	634	90. 949	41.162	36. 204	1.00 7.58	В	C
ATOM	10888		TYR	634	90. 924	40. 218	35. 189	1.00 7.56	В	C
ATOM	10889		TYR	634	88. 649	41.660	35. 805	1.00 8.82	В	C
ATOM	10890		TYR	634	88. 615	40. 715	34. 788	1.00 7.88	В	C
ATOM	10891	CZ	TYR	634	89. 756	39. 996	34. 488	1.00 6.90	В	C
ATOM	10892	OH	TYR	634	89. 722	39. 039	33. 504	1.00 8.03	В	0
ATOM	10893	C	TYR	634	88. 967	41. 358	39. 278	1.00 13.02	В	C
ATOM	10894 10895	0 N	TYR	634	88. 038	40. 548	39. 222	1.00 13.14	В	0
ATOM		N	VAL	635	90.140	41.091	39.858	1.00 14.38	В	N
ATOM	10896	CA	VAL	635 625	90. 426 91. 839	39. 796	40. 467	1.00 13.39	В	C
ATOM ATOM	10897 10898	CB CG1	VAL VAL	635 635	91. 039	39. 747 38. 467	41.093 41.923	1.00 13.28	В	C
ATOM	10899		VAL	635	92. 894	39. 782	39. 999	1.00 13.06	В	C
ATOM	10099	CGZ	VAL	635	89. 412	39. 443	41.533	1.00 8.09	B B	C
ATOM	10901	Ö	VAL	635	88. 932	38. 320	41. 563	1.00 13.35 1.00 15.02	В	C 0
ATOM	10902	N	THR	636	89. 091	40. 394	42. 405	1.00 13.02	В	N
ATOM	10903	CA	THR	636	88. 108	40. 160	43. 457	1.00 13.48	В	C
ATOM	10903	CB	THR	636	87. 788	41.451	44. 260	1.00 15.19	В	C
ATOM	10905	0G1		636	88. 950	41. 886	44. 200	1.00 15.19	В	0
ATOM	10906	CG2	THR	636	86. 655	41.188	45. 259	1.00 13.24	В	C
ATOM	10907	C	THR	636	86. 792	39. 665	42.862	1.00 13.31	В	Č
ATOM	10908	ŏ	THR	636	86. 160	38. 750	43. 395	1.00 14.07	В	Ö
ATOM	10909	Ň	SER	637	86. 373	40. 281	41.762	1.00 15.59	В	N N
ATOM	10910	CA	SER	637	85. 120	39. 905	41.112	1.00 15.99	В	Č
ATOM	10911	CB	SER	637	84. 698	40.974	40. 102	1.00 16.88	В	č
ATOM	10912	0G	SER	637	84. 303	42. 158	40.766	1.00 18.07	B	ŏ
ATOM	10913	Č	SER	637	85. 195	38. 558	40. 420	1.00 16.54	В	č
ATOM	10914	Ŏ	SER	637	84. 250	37. 773	40. 487	1.00 17.87	В	ŏ
ATOM	10915	Ň	MET	638	86. 309	38. 300	39. 740	1.00 15.64	В	Ň
ATOM	10916	CA	MET	638	86. 493	37. 030	39. 052	1.00 15.55	B	Ċ
ATOM	10917	CB	MET	638	87. 807	37. 033	38. 272	1.00 15.97	В	č
ATOM	10918	CG	MET	638	87. 822	37. 959	37.067	1.00 17.38	B	č
<b>ATOM</b>	10919	SD	MET	638	86. 715	37. 422	35. 736	1.00 19.14	B	Š
<b>ATOM</b>	10920	CE	MET	638	87. 806	36. 324	34. 798	1.00 15.28	B	č
<b>ATOM</b>	10921	C	MET	638	86. 511	35. 913	40.093	1.00 17.56	B	č
<b>ATOM</b>	10922	0	MET	638	86.018	34.807	39.843	1.00 17.45	B	Ö
ATOM	10923	N	VAL	639	87. 086	36. 199	41.260	1.00 16.50	В	N
ATOM	10924	CA	VAL	639	87. 133	35. 207	42.317	1.00 17.27	В	C
ATOM	10925		VAL	639	88. 047	35. 640	43.480	1.00 16.78	В	C
ATOM	10926	CG1	VAL	639	87. 648	34. 884	44.757	1.00 16.23	В	C

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ATOM 10927 CG2 VAL 639 85.495 35.335 43.139 1.00 14.45 B C ATOM 10928 C VAL 639 85.742 34.919 42.875 1.00 17.57 B C ATOM 10929 0 VAL 639 85.387 33.760 43.081 1.00 18.52 B 0 ATOM 10930 N LEU 640 84.957 35.964 43.124 1.00 16.90 B N ATOM 10931 CA LEU 640 83.618 35.766 43.661 1.00 17.45 B C ATOM 10932 CB LEU 640 82.978 37.098 44.032 1.00 17.45 B C ATOM 10933 CG LEU 640 82.743 38.962 45.654 1.00 14.30 B C ATOM 10934 CD1 LEU 640 82.743 38.962 45.654 1.00 14.30 B C ATOM 10935 CD2 LEU 640 83.318 36.677 46.447 1.00 15.97 B C ATOM 10936 C LEU 640 82.713 35.020 42.699 1.00 17.81 B C ATOM 10937 O LEU 640 81.821 34.284 43.119 1.00 20.73 B O ATOM 10938 N GLY 641 82.952 35.198 41.409 1.00 18.14 B N ATOM 10939 CA GLY 641 82.135 34.526 40.418 1.00 17.61 B C ATOM 10940 C GLY 641 82.352 35.198 41.409 1.00 18.16 B C ATOM 10940 C GLY 641 82.352 35.198 41.409 1.00 18.16 B C ATOM 10944 CB SER 642 83.735 32.777 40.683 1.00 17.52 B C ATOM 10944 CB SER 642 83.735 32.777 40.683 1.00 17.53 B N ATOM 10945 OG SER 642 83.373 32.727 40.683 1.00 17.53 B N ATOM 10946 C SER 642 83.81 31.497 40.297 1.00 19.98 B C ATOM 10947 O SER 642 83.891 30.239 40.755 1.00 21.75 B C ATOM 10948 N GLY 643 82.92 39.147 40.265 1.00 20.78 B C ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.05 B N ATOM 10949 CA GLY 643 82.203 29.258 42.210 1.00 22.05 B N ATOM 10949 CA GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10945 CB SER 642 83.891 30.239 40.755 1.00 21.75 B C ATOM 10945 CB SER 644 83.891 29.247 40.265 1.00 22.65 B O ATOM 10945 CB SER 644 83.891 29.258 42.210 1.00 22.05 B N ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10951 O GLY 643 82.811 28.335 43.130 1.00 21.05 B C ATOM 10955 N SER 644 84.84 82.924 44.656 1.00 21.56 B C ATOM 10956 C SER 644 84.86 655 28.667 44.833 1.00 21.02 B C ATOM 10957 O SER 644 84.85 992 29.798 45.666 1.00 22.35 B O ATOM 10957 O SER 644 84.85 992 29.798 45.666 1.00 22.35 B O ATOM 10957 O SER 644 84.86 85.992 29.798 45.666 1.00 22.35 B O ATOM 10957 O SER 644 84.86 85.992 29.738 45.666 1.00 22.35 B O ATOM 10958 N G			FIG. 4-224	1	(Continued)
ATOM 10930 N LEU 640 84.957 35.964 43.124 1.00 16.90 B N ATOM 10931 CA LEU 640 83.618 35.766 43.661 1.00 17.42 B C ATOM 10932 CB LEU 640 82.978 37.098 44.032 1.00 17.45 B C ATOM 10933 CG LEU 640 83.512 37.699 45.327 1.00 17.52 B C ATOM 10934 CD1 LEU 640 82.743 38.962 45.654 1.00 14.30 B C ATOM 10935 CD2 LEU 640 83.378 36.677 46.447 1.00 15.97 B C ATOM 10936 C LEU 640 82.713 35.020 42.699 1.00 17.81 B C ATOM 10937 O LEU 640 81.821 34.284 43.119 1.00 20.73 B O ATOM 10938 N GLY 641 82.952 35.198 41.409 1.00 18.14 B N ATOM 10939 CA CLY 641 82.135 34.526 40.418 1.00 17.61 B C ATOM 10940 C GLY 641 82.358 33.235 39.936 1.00 17.52 B C ATOM 10941 O GLY 641 82.346 32.697 38.911 1.00 15.15 B O ATOM 10942 N SER 642 83.735 32.727 40.683 1.00 17.53 B N ATOM 10944 CB SER 642 84.419 31.497 40.297 1.00 19.98 B C ATOM 10944 CB SER 642 85.841 31.479 40.864 1.00 20.78 B C ATOM 10945 OG SER 642 83.691 30.239 40.755 1.00 21.75 B C ATOM 10947 O SER 642 83.974 29.147 40.265 1.00 22.65 B O ATOM 10949 CA CLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10950 C GLY 643 82.268 30.395 41.701 1.00 22.05 B N ATOM 10950 C GLY 643 82.268 30.395 41.701 1.00 22.05 B N ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 21.02 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 21.02 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 21.02 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 21.02 B C ATOM 10950 C GLY 643 82.860 27.162 43.271 1.00 26.05 B O ATOM 10950 C GLY 643 82.860 27.162 43.271 1.00 23.55 B O ATOM 10950 C GER 644 84.684 28.024 44.666 1.00 22.35 B O ATOM 10950 C GER 644 84.684 28.024 44.666 1.00 22.35 B O ATOM 10950 C GER 644 84.684 28.024 44.666 1.00 23.35 B O ATOM 10950 C GER 644 84.684 28.024 44.666 1.00 23.35 B O ATOM 10950 C GER 644 85.992 29.798 45.666 1.00 23.35 B O ATOM 10950 C GER 644 84.684 27.773 46.037 1.00 23.51 B O ATOM 10950 C GER 644 84.451 26.807 4	ATOM 109	928 C VAL 639	89. 495 35. 335 43. 139 85. 742 34. 919 42. 875	9 1.00 14.45 B 5 1.00 17.57 B	С
ATOM 10934 CD1 LEU 640 82.743 38.962 45.654 1.00 14.30 B C ATOM 10935 CD2 LEU 640 83.378 36.677 46.447 1.00 15.97 B C ATOM 10936 C LEU 640 82.713 35.020 42.699 1.00 17.81 B C ATOM 10937 0 LEU 640 81.821 34.284 43.119 1.00 20.73 B O ATOM 10938 N GLY 641 82.952 35.198 41.409 1.00 18.14 B N ATOM 10939 CA GLY 641 82.135 34.526 40.418 1.00 17.61 B C ATOM 10940 C GLY 641 82.758 33.235 39.936 1.00 17.52 B C ATOM 10941 0 GLY 641 82.346 32.697 38.911 1.00 15.15 B O ATOM 10942 N SER 642 83.735 32.727 40.683 1.00 17.53 B N ATOM 10943 CA SER 642 84.419 31.497 40.297 1.00 19.98 B C ATOM 10944 CB SER 642 85.841 31.479 40.864 1.00 20.78 B C ATOM 10946 C SER 642 85.849 31.088 42.226 1.00 21.56 B O ATOM 10947 0 SER 642 83.974 29.147 40.265 1.00 21.56 B O ATOM 10948 N GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10950 C GLY 643 82.860 27.162 43.271 1.00 22.05 B N ATOM 10951 O GLY 643 82.860 27.162 43.271 1.00 22.05 B O ATOM 10954 CB SER 644 84.684 28.024 44.656 1.00 21.56 B O ATOM 10955 CC GLY 643 82.860 27.162 43.271 1.00 22.05 B O ATOM 10955 CC SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 N SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10958 N SER 644 85.992 29.798 45.666 1.00 21.56 B C ATOM 10955 OG SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 N SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 N SER 644 84.684 27.773 46.037 1.00 21.06 B C ATOM 10957 O SER 644 84.684 27.773 46.037 1.00 21.06 B C ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 109	930 N LEU 640	84. 957 35. 964 43. 124	H 1.00 16.90 B	N
	ATOM 109	931 CA LEU 640	83. 618 35. 766 43. 661	1.00 17.42 B	C
	ATOM 109	932 CB LEU 640	82. 978 37. 098 44. 032	2 1.00 17.45 B	C
ATOM 10938 N GLY 641 82.952 35.198 41.409 1.00 18.14 B N ATOM 10939 CA GLY 641 82.135 34.526 40.418 1.00 17.61 B C ATOM 10940 C GLY 641 82.758 33.235 39.936 1.00 17.52 B C ATOM 10941 0 GLY 641 82.346 32.697 38.911 1.00 15.15 B 0 ATOM 10942 N SER 642 83.735 32.727 40.683 1.00 17.53 B N ATOM 10943 CA SER 642 84.419 31.497 40.297 1.00 19.98 B C ATOM 10944 CB SER 642 85.841 31.479 40.864 1.00 20.78 B C ATOM 10945 OG SER 642 85.849 31.088 42.226 1.00 21.56 B 0 ATOM 10946 C SER 642 83.691 30.239 40.755 1.00 21.75 B C ATOM 10947 0 SER 642 83.974 29.147 40.265 1.00 22.65 B 0 ATOM 10948 N GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10950 C GLY 643 82.460 27.162 43.271 1.00 22.41 B N ATOM 10952 N SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10954 CB SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10950 C SER 644 84.684 28.024 44.656 1.00 22.55 B C ATOM 10950 C GLY 643 82.460 27.162 43.271 1.00 22.41 B N ATOM 10950 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10955 C SER 644 84.084 27.773 46.037 1.00 21.02 B C ATOM 10955 C SER 644 84.084 27.773 46.037 1.00 23.51 B O ATOM 10957 O SER 644 84.084 27.773 46.037 1.00 23.51 B O ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 109	934 CD1 LEU 640	82. 743 38. 962 45. 654	H 1.00 14.30 B	C
	ATOM 109	935 CD2 LEU 640	83. 378 36. 677 46. 447	7 1.00 15.97 B	C
	ATOM 109	936 C LEU 640	82. 713 35. 020 42. 699	9 1.00 17.81 B	C
ATOM 10942 N SER 642 83.735 32.727 40.683 1.00 17.53 B N ATOM 10943 CA SER 642 84.419 31.497 40.297 1.00 19.98 B C ATOM 10944 CB SER 642 85.841 31.479 40.864 1.00 20.78 B C ATOM 10945 OG SER 642 85.849 31.088 42.226 1.00 21.56 B O ATOM 10946 C SER 642 83.691 30.239 40.755 1.00 21.75 B C ATOM 10947 O SER 642 83.974 29.147 40.265 1.00 22.65 B O ATOM 10948 N GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10951 O GLY 643 82.460 27.162 43.271 1.00 26.05 B O ATOM 10952 N SER 644 83.859 28.849 43.772 1.00 22.41 B N ATOM 10953 CA SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10954 CB SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10955 OG SER 644 85.992 29.798 45.666 1.00 22.35 B O ATOM 10957 O SER 644 84.084 27.773 46.037 1.00 23.51 B O ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 1093	938 N GLY 641	82. 952 35. 198 41. 409	1.00 18.14 B	N
	ATOM 1093	939 CA GLY 641	82. 135 34. 526 40. 418	1.00 17.61 B	C
	ATOM 1094	940 C GLY 641	82. 758 33. 235 39. 936	1.00 17.52 B	C
ATOM 10945 OG SER 642 85.849 31.088 42.226 1.00 21.56 B O ATOM 10946 C SER 642 83.691 30.239 40.755 1.00 21.75 B C ATOM 10947 O SER 642 83.974 29.147 40.265 1.00 22.65 B O ATOM 10948 N GLY 643 82.768 30.395 41.701 1.00 22.05 B N ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10951 O GLY 643 82.460 27.162 43.271 1.00 26.05 B O ATOM 10952 N SER 644 83.859 28.849 43.772 1.00 22.41 B N ATOM 10953 CA SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10954 CB SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10955 OG SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10956 C SER 644 84.084 27.773 46.037 1.00 21.06 B C ATOM 10957 O SER 644 84.451 26.807 46.707 1.00 23.51 B O ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 1094	942 N SER 642	83. 735 32. 727 40. 683	1.00 17.53 B	N
	ATOM 1094	943 CA SER 642	84. 419 31. 497 40. 297	1.00 19.98 B	C
ATOM 10949 CA GLY 643 82.023 29.258 42.210 1.00 22.58 B C ATOM 10950 C GLY 643 82.811 28.335 43.130 1.00 24.03 B C ATOM 10951 0 GLY 643 82.460 27.162 43.271 1.00 26.05 B 0 ATOM 10952 N SER 644 83.859 28.849 43.772 1.00 22.41 B N ATOM 10953 CA SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10954 CB SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10955 0G SER 644 85.992 29.798 45.666 1.00 22.35 B 0 ATOM 10956 C SER 644 84.084 27.773 46.037 1.00 21.06 B C ATOM 10957 0 SER 644 84.451 26.807 46.707 1.00 23.51 B 0 ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 1094	946 C SER 642	83. 691 30. 239 40. 755	1. 00 21. 75 B	C
	ATOM 1094	947 O SER 642	83. 974 29. 147 40. 265	1. 00 22. 65 B	0
ATOM 10953 CA SER 644 84.684 28.024 44.656 1.00 21.56 B C ATOM 10954 CB SER 644 86.065 28.657 44.833 1.00 21.02 B C ATOM 10955 OG SER 644 85.992 29.798 45.666 1.00 22.35 B O ATOM 10956 C SER 644 84.084 27.773 46.037 1.00 21.06 B C ATOM 10957 O SER 644 84.451 26.807 46.707 1.00 23.51 B O ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 1094	949 CA GLY 643	82. 023 29. 258 42. 210	1.00 22.58 B	C
	ATOM 1095	950 C GLY 643	82. 811 28. 335 43. 130	1.00 24.03 B	C
	ATOM 1095	951 O GLY 643	82. 460 27. 162 43. 271	1.00 26.05 B	O
ATOM 10957 O SER 644 84.451 26.807 46.707 1.00 23.51 B O ATOM 10958 N GLY 645 83.175 28.643 46.469 1.00 19.50 B N	ATOM 1095	953 CA SER 644	84. 684 28. 024 44. 656	1.00 21.56 B	C
	ATOM 1095	954 CB SER 644	86. 065 28. 657 44. 833	1.00 21.02 B	C
	ATOM 1095	955 OG SER 644	85. 992 29. 798 45. 666	1.00 22.35 B	O
	ATOM 1098 ATOM 1098 ATOM 1098	957 O SER 644 958 N GLY 645 959 CA GLY 645	84. 451 26. 807 46. 707 83. 175 28. 643 46. 469 82. 561 28. 485 47. 774	1.00 23.51 B 1.00 19.50 B 1.00 16.85 B	0 N
ATOM 10960 C GLY 645 83.484 28.868 48.920 1.00 18.76 B C ATOM 10961 O GLY 645 83.111 28.771 50.090 1.00 18.32 B O ATOM 10962 N VAL 646 84.691 29.320 48.591 1.00 18.97 B N ATOM 10963 CA VAL 646 85.669 29.695 49.612 1.00 18.18 B C	ATOM 1096	961 O GLY 645	83. 111 28. 771 50. 090	1. 00 18. 32 B	O
	ATOM 1096	962 N VAL 646	84. 691 29. 320 48. 591	1. 00 18. 97 B	N
ATOM 10964 CB VAL 646 87.095 29.718 49.029 1.00 19.50 B C ATOM 10965 CG1 VAL 646 88.082 30.202 50.086 1.00 17.45 B C ATOM 10966 CG2 VAL 646 87.471 28.341 48.516 1.00 17.29 B C ATOM 10967 C VAL 646 85.433 31.051 50.266 1.00 18.24 B C	ATOM 1096 ATOM 1096	965 CG1 VAL 646 966 CG2 VAL 646	88. 082 30. 202 50. 086 87. 471 28. 341 48. 516	1. 00 17. 45 B 1. 00 17. 29 B	C C C
ATOM 10968 0 VAL 646 85.860 31.270 51.396 1.00 20.76 B 0 ATOM 10969 N PHE 647 84.763 31.957 49.561 1.00 16.76 B N ATOM 10970 CA PHE 647 84.525 33.297 50.082 1.00 16.60 B C ATOM 10971 CB PHE 647 85.066 34.337 49.094 1.00 16.44 B C	ATOM 1096	968 0 VAL 646	85. 860 31. 270 51. 396	1. 00 20. 76 B	O
	ATOM 1096	969 N PHE 647	84. 763 31. 957 49. 561	1. 00 16. 76 B	N
	ATOM 1097	970 CA PHE 647	84. 525 33. 297 50. 082	1. 00 16. 60 B	C
ATOM 10972 CG PHE 647 86.528 34.204 48.820 1.00 15.63 B C ATOM 10973 CD1 PHE 647 87.455 34.941 49.553 1.00 14.72 B C ATOM 10974 CD2 PHE 647 86.985 33.320 47.844 1.00 14.49 B C ATOM 10975 CE1 PHE 647 88.826 34.800 49.317 1.00 16.66 B C	ATOM 1097	972 CG PHE 647	86. 528 34. 204 48. 820	1. 00 15. 63 B	C
	ATOM 1097	973 CD1 PHE 647	87. 455 34. 941 49. 553	1. 00 14. 72 B	C
	ATOM 1097	974 CD2 PHE 647	86. 985 33. 320 47. 844	1. 00 14. 49 B	C

										(Conti	nued)
					FΙ	G. 4 -	225			(001101	
ATOM	10976	CE2	PHE	647	88. 356	33. 170	47. 600	1.00 16.73	В	С	
ATOM	10977	CZ	PHE	647	89. 278		48.338	1.00 13.35	В	C	
ATOM	10978	Ċ	PHE	647	83.068		50.365	1.00 16.77	В	C	
<b>ATOM</b>	10979	0	PHE	647	82.194	33. 328	49.551	1.00 17.32	В	0	
<b>ATOM</b>	10980	N	LYS	648	82. 819	34. 214	51.515	1.00 16.74	В	N	
<b>ATOM</b>	10981	CA	LYS	648	81.466	34. 565	51.905	1.00 19.64	В	C	
ATOM	10982	CB	LYS	648	81.369	34.634	53.429	1.00 19.84	В	C	
ATOM	10983	CG	LYS	648	80.069		53. 911	1.00 21.93	В	C	
ATOM	10984	CD	LYS	648	79. 876		55.393	1.00 23.19	В	C	
ATOM	10985	CE	LYS	648	78. 548		55. 814	1.00 24.97	В	C	
ATOM	10986	NZ	LYS	648	78. 180		57. 165	1.00 31.55	В	N	
ATOM	10987	C	LYS	648	81.019		51.308	1.00 21.05	В	C	
ATOM	10988	0	LYS	648	79. 851		50. 930	1.00 20.25	В	0	
ATOM	10989	N	CYS	649	81.954		51. 237	1.00 20.69	В	N	
ATOM	10990	CA	CYS	649	81.670		50.711	1.00 21.97	В	C	
ATOM	10991	C	CYS	649	82. 928		50.134	1.00 22.72	В	C	
ATOM	10992	0	CYS	649	84. 054		50. 477	1.00 23.68	В	0	
ATOM	10993	CB	CYS	649	81. 124		51.822	1.00 23.52 1.00 26.89	В	C	
ATOM ATOM	10994 10995	SG	CYS GLY	649 650	82. 287 82. 728		53. 208 49. 267	1.00 20.89	В	S	
ATOM	10995	N CA	GLY	650	83. 850		48. 668	1.00 20.11	B B	N	
ATOM	10997	C	GLY	650	83. 484		48. 308	1.00 18.42	В	C C	
ATOM	10998	Ö	GLY	650	82. 308		48. 135	1.00 18.08	В	ő	
ATOM	10999	N	ILE	651	84. 490		48. 209	1.00 13.13	В	N	
ATOM	11000	CA	ILE	651	84. 284		47. 851	1.00 15.98	В	Č	
ATOM	11001	CB	ILE	651	84. 632		49.014	1.00 15.40	В	č	
ATOM	11002		ILE	651	84. 386		48. 589	1.00 15.87	B	č	
ATOM	11003		ILE	651	83. 789		50. 242	1.00 15.95	B	č	
<b>ATOM</b>	11004	CD1	ILE	651	84.017		51.411	1.00 14.84	B	Č	
<b>ATOM</b>	11005	C	ILE	651	85. 190		46.679	1.00 16.40	B	Č	
<b>ATOM</b>	11006	0	ILE	651	86. 404		46.754	1.00 16.63	В	0	
ATOM	11007	N	ALA	652	84. 594	45.025	45.608	1.00 16.04	В	N	
ATOM	11008	CA	ALA	652	85. 330	45.409	44.413	1.00 15.10	В	C	
ATOM	11009	CB	ALA	652	84. 809	44. 629	43. 214	1.00 16.38	В	C	
ATOM	11010	C	ALA	652	85. 190		44. 153	1.00 15.88	В	C	
ATOM	11011	0	ALA	652	84. 089		43.895	1.00 14.37	В	0	
ATOM	11012	N	VAL	653	86. 308		44. 214	1.00 15.73	В	N	
ATOM	11013	CA	VAL	653	86. 298		43. 978	1.00 15.50	В	C	
ATOM	11014	CB	VAL	653	87. 110		45.055	1.00 17.97	В	C	
ATOM	11015		VAL	653	87. 050		44. 787	1.00 18.06	В	C	
ATOM	11016		VAL	653	86. 566		46. 446	1.00 18.80	В	C	
ATOM	11017 11018	C	VAL	653	86.905		42.624	1.00 15.11	В	C	
ATOM ATOM	11018	O N	VAL ALA	653 654	88. 071 86. 106		42. 373 41. 766	1.00 14.41 1.00 14.05	B B	0 N	
ATOM	11019	CA	ALA	654	86. 532		40.427	1.00 14.00	В	N C	
ATOM	11020	CB	ALA	654	87. 424		40. 427	1.00 12.10	В	C	
ATOM	11021	CD	ALA	654	87. 258		39. 700	1.00 12.13	В	C	
ATOM	11023	ŏ	ALA	654	88. 364		39. 192	1.00 12.46	В	ŏ	
ATOM	11024	Ň	PRO	655	86. 633		39. 626	1.00 11.84	В	N	
			-	-							

										(Continued)
					FIG	. 4 -	2 2 6			•
ATOM	11025	CD	PRO	655	85.273	47. 797	40.088	1.00 11.50	В	С
ATOM	11026	CA	PR0	655	87. 247	47.003	38. 954	1.00 11.05	В	C
ATOM	11027	CB	PR0	655	86.399	45.841	39. 436	1.00 11.09	В	С
ATOM	11028	CG	PR0	655	85.030	46. 451	39. 428	1.00 8.50	В	С
ATOM	11029	C	PR0	655	87. 190	47. 102	37. 447	1.00 10.92	В	C
ATOM	11030	0	PR0	655	86. 383	47.847	36.896	1.00 11.41	В	0
ATOM	11031	N	VAL	656	88.066	46. 352	36. 791	1.00 9.60	В	N
ATOM	11032	CA	VAL	656	88. 052	46. 250	35. 345	1.00 9.08	В	C
ATOM	11033	CB	VAL	656	89.452	45. 888	34. 790	1.00 7.45	В	C
ATOM	11034		VAL	656	89. 336	45. 163	33. 451	1.00 5.90	В	C
ATOM	11035		VAL	656	90. 249	47. 146	34. 601	1.00 7.63	В	C
ATOM	11036	C	VAL	656	87.107	45.056	35. 224	1.00 10.20	В	C
ATOM	11037	0	VAL	656	87. 157	44. 152	36. 058	1.00 10.59	В	0
ATOM	11038	N	SER	657	86. 231 85. 313	45.038	34. 230	1.00 11.76	В	N
ATOM ATOM	11039 11040	CA CB	SER SER	657 657	83. 867	43. 908 44. 375	34. 115	1.00 14.03	В	C
ATOM	11040	OG	SER	657	83. 495	45. 242	34. 271 33. 218	1.00 13.85 1.00 15.07	B B	C 0
ATOM	11041	C	SER	657	85. 456	43. 153	32. 812	1.00 13.07	В	C
ATOM	11042	ő	SER	657	85. 191	41. 952	32. 743	1.00 14.00	В	0
ATOM	11044	N	ARG	658	85. 887	43.860	31. 781	1.00 14.15	В	N N
ATOM	11045	CA	ARG	658	86. 050	43. 277	30. 459	1.00 13.24	В	Č
ATOM	11046	CB	ARG	658	84. 768	43. 532	29. 670	1.00 14.22	В	č
ATOM	11047	ĊĠ	ARG	658	84. 763	43.086	28. 231	1.00 18.57	В	č
ATOM	11048	CD	ARG	658	83. 436	43.470	27. 588	1.00 19.40	B	č
ATOM	11049	NE	ARG	658	83. 475	43.338	26. 138	1.00 23.11	B	Ň
ATOM	11050	CZ	ARG	658	82.868	42.376	25.454	1.00 22.54	В	C
ATOM	11051	NH1	ARG	658	82.167	41.445	26.088	1.00 21.95	В	N
ATOM	11052	NH2	ARG	658	82. 955	42.361	24. 131	1.00 22.77	В	N
ATOM	11053	C	ARG	658	87. 242	44.014	29.857	1.00 12.76	В	C
ATOM	11054	0	ARG	658	87. 218	45. 239	29.733	1.00 11.97	В	0
ATOM	11055	N	TRP	659	88. 282	43. 283	29. 476	1.00 11.05	В	N
ATOM	11056	CA	TRP	659	89. 468	43.942	28. 955	1.00 12.23	В	C
ATOM	11057	CB	TRP	659	90. 578	42.918	28. 777	1.00 11.99	В	C
ATOM	11058	CG	TRP	659	91.026	42.392	30. 112	1.00 13.26	В	C
ATOM	11059		TRP	659	91.729	43. 120	31. 122	1.00 12.61	В	C
MOTA	11060		TRP	659	91.848	42. 271	32. 242	1.00 13.22	В	C
ATOM	11061		TRP	659	92. 268	44. 412	31. 193	1.00 14.19	В	C
ATOM ATOM	11062		TRP	659	90. 759	41.163	30. 644	1.00 13.17	В	C
ATOM	11063 11064		TRP	659	91. 247	41.083	31. 920	1.00 13.29	В	N
ATOM	11064		TRP TRP	659 650	92.489	42. 670 44. 810	33. 424	1.00 13.99	В	C
ATOM	11066		TRP	659 659	92. 909 93. 011	43. 940	32. 373 33. 468	1.00 13.35 1.00 11.92	B B	C
ATOM	11067	C	TRP	659	89. 338	44. 840	27. 730	1.00 11.92	В	C C
ATOM	11068	ŏ	TRP	659	90. 118	45. 766	27. 569	1.00 15.25	В	0
ATOM	11069	Ň	GLU	660		44. 595	26. 871	1.00 13.39	В	N N
ATOM	11070	ĊA	GLU	660		45. 453	25. 708	1.00 15.33	В	Č
ATOM	11071	CB	GLU	660		44.854	24. 743	1.00 18.10	В	č
ATOM	11072	CG	GLU	660		43. 527	24. 130	1.00 21.82	B	č
ATOM	11073	CD	GLU	660		42.829	23.386	1.00 25.49	B	Č

					E I	G. 4	. 9 9 7			(Continued)
					PI	G. 4	221			
ATOM	11074	0E1		660	86.087		22. 279	1.00 29.78	В	0
ATOM	11075		GLU GLU	660	85. 929		23. 914	1.00 26.73	В	0
ATOM	11076	C	GLU	660	87. 719		26. 170	1.00 14.88	В	C
ATOM	11077	0	GLU	660	87. 661		25. 375	1.00 14.50	В	0
ATOM	11078	N	TYR	661	87. 371		27. 450	1.00 14.66	В	N
ATOM	11079	CA	TYR	661	86. 941		27. 977	1.00 15.13	В	C
ATOM	11080	CB	TYR	661	85. 988		29. 168	1.00 15.73	В	C
ATOM ATOM	11081 11082	CG CD1	TYR TYR	661	84. 599		28. 872	1.00 19.12	В	C
ATOM	11082		TYR	661 661	83. 823 82. 553		29. 898	1.00 18.37	В	C
ATOM	11084		TYR	661	84. 061		29. 653 27. 581	1.00 19.84 1.00 19.07	В	C
ATOM	11085		TYR	661	82. 782		27. 323	1.00 19.07	B B	C C C C
ATOM	11086	CZ	TYR	661	82. 035		28. 367	1.00 20.28	В	C
ATOM	11087	OH	TYR	661	80. 785		28. 142	1.00 20.60	В	Ö
ATOM	11088	C	TYR	661	88. 146		28. 464	1.00 20.00	В	Č
ATOM	11089	Ŏ	TYR	661	88. 083	50. 266	28. 555	1.00 14.55	B	Ö
ATOM	11090	Ň	TYR	662	89. 239	48. 355	28. 789	1.00 14.46	В	N N
ATOM	11091	CA	TYR	662	90.411	49.060	29. 289	1.00 15.14	B	Ċ
ATOM	11092	CB	TYR	662	91. 225	48. 182	30. 240	1.00 13.98	B	č
ATOM	11093	CG	TYR	662	92.049	49.021	31.187	1.00 14.52	B	Č
ATOM	11094		TYR	662	93. 379	48.699	31.468	1.00 14.22	В	Ċ
ATOM	11095		TYR	662	94. 168	49. 531	32. 255	1.00 11.31	В	С
ATOM	11096		TYR	662	91. 522	50. 194	31.734	1.00 13.44	В	С
ATOM	11097		TYR	662	92. 297	51.030	32. 520	1.00 13.70	.B B	C
ATOM	11098	CZ	TYR	662	93. 620	50.699	32.776	1.00 13.69	В	C
ATOM	11099	OH	TYR	662	94. 395	51.549	33. 532	1.00 12.84	В	0
ATOM	11100	C	TYR	662	91. 309	49.615	28. 182	1.00 15.44	В	С
ATOM	11101	0	TYR	662	91. 095	49. 337	26. 996	1.00 15.06	В	0
ATOM	11102	N	ASP	663	92. 310	50. 405	28. 569	1.00 13.90	В	N
ATOM .	11103 11104	CA CB	ASP ASP	663	93. 192	51.026	27. 588	1.00 13.58	В	C
ATOM	11104	CG	ASP	663 663	93. 961 95. 093	52. 192	28. 238	1.00 13.61	В	C
ATOM	11105		ASP	663	95. 223	51.741 52.327	29. 152	1.00 14.10	В	C
ATOM	11107		ASP	663	95. 869	50. 836	30. 243 28. 780	1.00 12.30	В	0
ATOM	11108	C	ASP	663	94. 139	50.076	26. 850	1.00 13.70 1.00 13.21	В	0
ATOM	11109	ŏ	ASP	663	94. 565	49. 045	27. 378	1.00 13.21	B B	C 0
ATOM	11110	Ň	SER	664	94. 453	50. 444	25. 612	1.00 13.05	В	N N
ATOM	11111	CA	SER	664	95. 321	49. 658	24. 738	1.00 13.65	В	C
ATOM	11112	CB	SER	664	95. 464	50. 364	23. 394	1.00 14.44	В	Č
ATOM	11113	0G	SER	664	96.055	51.642	23. 550	1.00 16.79	В	ŏ
ATOM	11114	C	SER	664	96.714	49. 340	25. 278	1.00 13.42	B	č
ATOM	11115	0	SER	664	97.066	48.176	25.438	1.00 12.83	B	Ö
ATOM	11116	N	VAL	665	97. 503	50.371	25.559	1.00 12.98	B	N
ATOM	11117	CA	VAL	665	98. 865	50.158	26.041	1.00 15.86	В	C
ATOM	11118	CB	VAL	665	99. 547	51.496	26.427	1.00 14.66	В	С
ATOM	11119	CG1		665	101. 023	51. 263	26.663	1.00 14.68	В	C
ATOM	11120	CG2		665	99. 354	52.519		1.00 15.28	В	C
ATOM	11121	C	VAL	665	99.020	49.169	27. 206	1.00 15.25	В	C
ATOM	11122	0	VAL	665	99.972	48. 400	27. 242	1.00 15.22	В	0

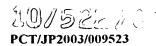


				FIG	. 4 -	2 2 8			(Continued)
ATOM ATOM	11123 11124	N TYR CA TYR		98. 091	49. 184 48. 276	28. 154 29. 299	1.00 17.07 1.00 15.32	B B	N C
ATOM	11125	CB TYR	666	97.504	48. 896	30. 531	1.00 13.28	В	С .
ATOM ATOM	11126 11127	CG TYR CD1 TYR			47. 997 46. 920	31. 751 31. 845	1. 00 12. 79 1. 00 12. 27	B B	C C
ATOM	11128	CE1 TYR			46. 089	32.964	1.00 12.60	В	C
ATOM ATOM	11129 11130	CD2 TYR CE2 TYR	666 666		48. 215 47. 390	32. 809 33. 928	1.00 12.83 1.00 11.79	B B	C C
ATOM	11131	CZ TYR		97.472	46. 332	34.005	1.00 13.90	B	C
ATOM	11132	OH TYR	666		45. 531	35. 131	1.00 12.51	В	0
ATOM ATOM	11133 11134	C TYR O TYR	666 666		46. 922 45. 895	29. 023 29. 399	1.00 15.26 1.00 18.30	B B	C 0
ATOM	11135	N THR	667		46. 912	28. 365	1.00 16.30	В	N
ATOM	11136	CA THR	667	95.712	45.656	28.097	1.00 13.70	В	C
ATOM	11137	CB THR OG1 THR	667		45. 925	27.656	1.00 12.07	В	C
ATOM ATOM	11138 11139	OG1 THR CG2 THR	667 667		16. 756 14. 624	28. 635 27. 533	1.00 11.17 1.00 10.21	B B	0 C
ATOM	11140	C THR	667		14. 792	27.067	1.00 15.29	B	č
ATOM	11141	0 THR	667		13. 626	27. 323	1.00 16.16	В	0
ATOM ATOM	11142 11143	N GLU CA GLU	668 668		15. 372 14. 672	25. 906 24. 823	1.00 16.99 1.00 16.90	B B	N C
ATOM	11143	CA GLU	668		15. 612	23. 625	1.00 10.90	В	C C
ATOM	11145	CG GLU	668	96. 231	15.808	22.867	1.00 21.31	B	č
ATOM	11146	CD GLU	668		16. 928	21.850	1.00 22.06	В	C
ATOM ATOM	11147 11148	OE1 GLU OE2 GLU	668 668		17. 054 17. 679	21. 123 21. 767	1.00 25.39 1.00 22.03	B B	0 0
ATOM	11149	C GLU	668		14. 127	25. 247	1.00 22.03	В	Č
ATOM	11150	0 GLU	668		13. 079	24.766	1.00 19.28	В	0
ATOM ATOM	11151 11152	N ARG	669		14.827	26. 158	1.00 17.62	В	N
ATOM	11152	CA ARG CB ARG	669 669		14. 392 15. 291	26. 640 27. 785	1.00 17.00 1.00 17.11	B B	C C
ATOM	11154	CG ARG	669	102.498 4	4.828	28.451	1.00 15.99	В	Č
ATOM	11155	CD ARG	669	102.878 4	5. 766	29.583	1.00 15.35	В	С
ATOM ATOM	11156 11157	NE ARG CZ ARG	669 669		17. 149 18. 196	29. 122 29. 856	1.00 16.25 1.00 16.96	B B	N C
ATOM	11158	NH1 ARG	669		8. 023	31. 101	1.00 16.86	В	C N
ATOM	11159	NH2 ARG	669	102.602 4	9.417	29.340	1.00 14.86	B	N N
ATOM	11160	C ARG	669		2.960	27. 140	1.00 17.70	В	C
ATOM ATOM	11161 11162	O ARG N TYR	669 670		2. 141 2. 655	26. 899 27. 825	1. 00 17. 72 1. 00 17. 60	B B	0 N
ATOM	11163	CA TYR	670		1. 333	28. 385	1.00 16.56	В	C
ATOM	11164	CB TYR	670	98. 823 4	1.465	29.810	1.00 15.82	В	C
ATOM ATOM	11165 11166	CG TYR CD1 TYR	670 670		2.491	30. 631	1.00 15.47	В	C
ATOM	11167	CE1 TYR	670		3. 706 4. 676	30. 973 31. 676	1.00 14.06 1.00 14.36	B B	C C
ATOM	11168	CD2 TYR	670	100. 894 4	2. 268	31.024	1.00 15.93	В	С
ATOM	11169	CE2 TYR	670		3. 232	31.732	1.00 15.78	В	C
ATOM ATOM	11170 11171	CZ TYR OH TYR	670 670		4. 433 5. 403	32. 051 32. 714	1. 00 15. 30 1. 00 15. 22	B B	C 0
111 0111	( 1	V11 111	010	101.110 4	J. 100	00.114	1.00 10.66	D	U



					(Continued)
				FIG. 4-229	(Continue of
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11172 11173 11174 11175 11176 11177 11178 11179 11180 11181 11182 11183 11184 11185 11186	C TYPE O TYPE N MET CA MET CB MET CG MET SD MET CE MET O MET N GLY CA GLY O GLY N LEU	670 671 671 671 671 671 671 671 671 672 672 672 672 672	F I G.       4 - 229         98. 435       40. 441       27. 578       1. 00 17. 87         98. 637       39. 231       27. 508       1. 00 18. 02         97. 435       41. 040       26. 948       1. 00 18. 57         96. 452       40. 271       26. 199       1. 00 19. 04         95. 063       40. 844       26. 482       1. 00 21. 47         94. 604       40. 692       27. 919       1. 00 21. 74         94. 228       38. 972       28. 277       1. 00 28. 61         92. 570       38. 871       27. 582       1. 00 23. 84         96. 640       40. 164       24. 692       1. 00 19. 95         96. 121       39. 240       24. 075       1. 00 20. 28         97. 380       41. 063       22. 654       1. 00 19. 08         96. 354       41. 807       22. 068       1. 00 21. 12         95. 746       42. 629       22. 755       1. 00 21. 18         96. 009       41. 534       20. 814       1. 00 21. 68	(Continued)  B C B O B N B C B C B C B C B C B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11186 11187 11188 11190 11191 11192 11193 11194 11195 11196 11197 11198 11199 11200 11201	CA LEUCH CCC LEUCH CCC LEUCH CCC LEUCH CCC PROCCC P	673 673 673 673 673 673 674 674 674 674 674 674	96. 009 41. 534 20. 814 1. 00 21. 68 94. 884 42. 225 20. 186 1. 00 21. 44 95. 204 42. 569 18. 732 1. 00 22. 03 96. 287 43. 627 18. 507 1. 00 24. 89 96. 518 43. 837 17. 023 1. 00 23. 45 95. 846 44. 932 19. 150 1. 00 27. 67 93. 616 41. 399 20. 243 1. 00 21. 68 93. 647 40. 173 20. 076 1. 00 21. 49 92. 475 42. 061 20. 487 1. 00 21. 61 92. 342 43. 487 20. 830 1. 00 20. 79 91. 180 41. 388 20. 571 1. 00 20. 99 90. 365 42. 347 21. 420 1. 00 19. 09 90. 845 43. 664 20. 941 1. 00 18. 24 90. 589 41. 155 19. 183 1. 00 21. 53 89. 470 41. 561 18. 884 1. 00 20. 30 91. 378 40. 505 18. 335 1. 00 23. 61	B C B C B C B C B C B C B C B C B C B C
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11202 11203 11204 11205 11206 11207 11208 11209 11210 11211 11212 11213 11214 11215 11216 11217 11218 11219 11220	CA THE CB THE OG1 THE CG2 THE C THE O THE N PRO CD PRO CA PRO CB PRO CG	675 675 675 675 675 676 676 676 676 676	90. 973       40. 176       16. 975       1. 00       23. 43         92. 045       40. 560       15. 957       1. 00       22. 99         93. 221       39. 783       16. 200       1. 00       24. 15         92. 386       42. 039       16. 062       1. 00       21. 26         90. 825       38. 668       16. 931       1. 00       25. 46         91. 424       37. 952       17. 736       1. 00       25. 82         90. 023       38. 160       15. 991       1. 00       26. 60         89. 130       38. 885       15. 074       1. 00       25. 76         89. 823       36. 714       15. 877       1. 00       26. 64         88. 860       36. 599       14. 702       1. 00       25. 84         88. 066       37. 859       14. 801       1. 00       24. 99         91. 135       35. 967       15. 630       1. 00       28. 63         91. 347       34. 875       16. 160       1. 00       28. 85         92. 021       36. 557       14. 834       1. 00       30. 55         93. 286       35. 905       14. 534       1. 00       31. 94         93. 772       36. 290       13.	B C B C B C B C B C B C B C B C B C B C

				F.I.C. 4 . 9.2.0	(Continued)
				FIG. 4-230	
ATOM	11221	OE2 GLU	677	92. 789 33. 121 12. 503 1. 00 46. 47 B	0
ATOM	11222	C GLU	677	94. 382 36. 174 15. 563 1. 00 31. 51 B	С
ATOM	11223	0 GLU		95. 565 35. 938 15. 305 1. 00 31. 18 B	0
ATOM	11224	N ASP	678	94. 003 36. 680 16. 730 1. 00 29. 04 B	N
ATOM	11225	CA ASP	678	95. 005 36. 896 17. 756 1. 00 26. 71 B	C
ATOM	11226	CB ASP	678	95. 359 38. 374 17. 917 1. 00 25. 30 B	C
ATOM ATOM	11227 11228	CG ASP OD1 ASP	678 678	96. 500 38. 586 18. 902 1. 00 26. 53 B 97. 004 39. 721 19. 008 1. 00 29. 18 B	C 0
ATOM	11229	OD1 ASP	678	96. 900 37. 612 19. 579 1. 00 24. 47 B	0
ATOM	11230	C ASP	678	94. 586 36. 325 19. 098 1. 00 25. 24 B	Č
ATOM	11231	0 ASP	678	94. 946 35. 200 19. 426 1. 00 26. 23 B	ŏ
ATOM	11232	N ASN	679	93. 814 37. 082 19. 871 1. 00 24. 14 B	Ň
ATOM	11233	CA ASN	679	93.418 36.608 21.186 1.00 22.47 B	С
ATOM	11234	CB ASN	679	94. 456 37. 089 22. 217 1. 00 23. 05 B	C
ATOM	11235	CG ASN	679	94. 390 36. 323 23. 524 1. 00 22. 50 B	C
ATOM	11236	OD1 ASN	679	94. 644 36. 880 24. 592 1. 00 21. 44 B	0
ATOM	11237	ND2 ASN	679	94. 059 35. 037 23. 448 1. 00 22. 30 B	N
ATOM ATOM	11238 11239	C ASN O ASN	679 679	92. 019 37. 061 21. 596 1. 00 21. 85 B 91. 727 37. 174 22. 785 1. 00 21. 56 B	C
ATOM	11239	N LEU	680	91. 727 37. 174 22. 785 1. 00 21. 56 B 91. 153 37. 316 20. 619 1. 00 22. 96 B	O N
ATOM	11241	CA LEU	680	89. 783 37. 750 20. 913 1. 00 22. 95 B	C
ATOM	11242	CB LEU	680	88. 999 37. 967 19. 617 1. 00 20. 94 B	Č
ATOM	11243	CG LEU	680	87. 524 38. 379 19. 734 1. 00 20. 98 B	č
<b>ATOM</b>	11244	CD1 LEU	680	87. 385 39. 671 20. 539 1. 00 21. 18 B	Č
ATOM	11245	CD2 LEU	680	86. 946 38. 567 18. 348 1. 00 17. 15 B	С
ATOM	11246	C LEU	680	89. 031 36. 762 21. 805 1. 00 22. 36 B	С
ATOM	11247	0 LEU	680	88. 316 37. 171 22. 718 1. 00 23. 81 B	0
ATOM	11248	N ASP	681	89. 193 35. 466 21. 555 1. 00 22. 95 B	N
ATOM ATOM	11249 11250	CA ASP CB ASP	681	88. 502 34. 469 22. 371 1. 00 24. 27 B	C
ATOM	11250	CG ASP	681 681	88. 910 33. 048 21. 980 1. 00 24. 73 B 88. 270 32. 587 20. 695 1. 00 25. 98 B	C
ATOM	11252	OD1 ASP	681	87. 453 33. 334 20. 116 1. 00 28. 21 B	C 0
ATOM	11253	OD2 ASP	681	88. 587 31. 462 20. 259 1. 00 28. 60 B	0
ATOM	11254	C ASP	681	88. 754 34. 655 23. 862 1. 00 23. 99 B	Č
ATOM	11255	0 ASP	681	87. 816 34. 640 24. 660 1. 00 24. 77 B	0
ATOM	11256	N HIS	682	90.014 34.819 24.252 1.00 22.66 B	N
ATOM	11257	CA HIS	682	90. 289 34. 998 25. 667 1. 00 22. 62 B	С
ATOM	11258	CB HIS	682	91. 775 34. 867 25. 981 1. 00 23. 03 B	C
ATOM	11259	CG HIS	682	92. 063 34. 898 27. 448 1. 00 25. 79 B	C
ATOM	11260	CD2 HIS	682	92. 844 35. 718 28. 190 1. 00 26. 73 B	C
ATOM ATOM	11261 11262	ND1 HIS CE1 HIS	682 682	91. 458 34. 035 28. 338 1. 00 25. 30 B 91. 852 34. 326 29. 565 1. 00 26. 50 B	N C
ATOM	11263	NE2 HIS	682	92. 693 35. 344 29. 504 1. 00 26. 09 B	C N
ATOM	11264	C HIS	682	89. 775 36. 344 26. 175 1. 00 21. 71 B	C
ATOM	11265	0 HIS	682	89. 412 36. 465 27. 345 1. 00 20. 98 B	Õ
ATOM	11266	N TYR	683	89. 753 37. 355 25. 307 1. 00 19. 91 B	Ň
ATOM	11267	CA TYR	683	89. 232 38. 657 25. 707 1. 00 19. 50 B	C
ATOM	11268	CB TYR	683	89. 226 39. 646 24. 542 1. 00 16. 55 B	С
ATOM	11269	CG TYR	683	90. 419 40. 574 24. 472 1. 00 16. 85 B	C

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					_			0.01				(Con	tinued)
					F	1 (	3. 4 -	231					
ATOM ATOM ATOM	11270 11271 11272	CE1 CD2	TYR TYR TYR	683 683 683	91. 92. 90.	700 345	40. 172 41. 040 41. 871	23. 877 23. 786 24. 980	1.00 1.00	16. 29 16. 38 16. 79	B B B	C C C	
ATOM ATOM	11273 11274	CZ	TYR TYR	683 683	91. 92.	598	42. 748 42. 326	24. 893 24. 295	1.00	14.60 15.79	B B	C C	
ATOM ATOM	11275 11276	OH C	TYR TYR	683 683	93. 87.	793	43. 193 38. 437	24. 192 26. 150	1.00	16. 43 21. 02	B B	0 C	
ATOM ATOM	11277 11278	0 N	TYR ARG	683 684	87. 87.	071	38. 955 37. 644	27. 174 25. 367	1.00	20. 95 22. 94	B B	0 N	
ATOM ATOM	11279 11280	CA CB	ARG ARG	684 684	85. 84.	992	37. 349 36. 871	25. 634 24. 344	1.00	24. 36 24. 11	B B	C	
ATOM ATOM	11281	CG CD	ARG ARG	684 684	84. 9 84.	197	37. 908 39. 132	23. 234 23. 639	1.00	25. 07 25. 30	B B	C C	
ATOM ATOM ATOM	11283 11284 11285	NE CZ NH1	ARG ARG ARG	684 684 684	84. 4 84. 83. !	126	40. 275 40. 344 39. 327	22. 767 21. 480 20. 880	1.00	27. 33 27. 26 27. 78	В В В	N C N	
ATOM ATOM	11286 11287		ARG ARG	684 684	84. 4 85. 4	409	41. 443 36. 340	20. 794 26. 745	1.00	26. 25 24. 46	B B	N C	
ATOM ATOM	11288 11289	O N	ARG ASN	684 685	84. 3 86. 4	275	36. 239 35. 591	27. 231 27. 148	1.00	26. 21 24. 53	B B	O N	
ATOM ATOM	11290 11291	CA CB	ASN ASN	685 685	86. 9 86. 9	243	34. 593 33. 294	28. 201 27. 823	1.00	23. 44 26. 13	B B	C C	
ATOM ATOM	11292 11293		ASN ASN	685 685	86. 85.	076	32. 430 31. 924	26. 904 27. 296	1.00	33. 00 35. 72	B B	0 0	
ATOM ATOM	11294 11295	C	ASN ASN	685 685	86. 9 86. 7	716	32. 260 35. 043	25. 667 29. 575	1.00	36. 03 20. 60	B B	N C	
ATOM ATOM ATOM	11296 11297 11298	O N	ASN SER	685 686 686	86. 4 87. 3	382	34. 361 36. 186	30. 566 29. 644	1.00	20. 98 16. 28	B B	0 N	
ATOM ATOM	11299 11300	CA CB OG	SER SER SER	686 686	87. 8 89. 3 89. 3	360	36. 666 37. 063 38. 050	30. 918 30. 773 29. 768	1.00	16. 33 17. 18 17. 94	B B B	C C 0	
ATOM ATOM	11301 11302	C 0	SER SER	686 686	87. ( 87. (	089	37. 837 38. 667	31. 486 32. 221	1.00	15. 71 13. 91	B B	0 C	
ATOM ATOM	11303 11304	Ň CA	THR THR	687 687	85. 8 84. 9	807	37. 905 38. 992	31. 155 31. 655	1.00	14. 37 15. 19	B B	N C	
ATOM ATOM	11305 11306	CB OG1	THR THR	687 687	83. 8 82. 9	399	39.401 38.362	30. 639 30. 537	1.00	16.80 18.14	B B	Č O	
ATOM ATOM	11307 11308	CG2 C	THR THR	687 687	84. §	309	39. 657 38. 605	29. 265 32. 957	1.00	16.92 14.86	B B	C C	
ATOM ATOM	11309	O N	THR VAL	687 688	84. 1 83. 9	910	37. 425 39. 616	33. 264 33. 717	1.00	13. 79 14. 71	B B	0 N	
ATOM ATOM ATOM	11311 11312 11313	CA CB CG1	VAL VAL VAI	688 688 688	83. 2 83. 2 82. 4	239	39. 411 40. 691 40. 464	34. 977 35. 824 37. 130	1.00	14. 27 15. 67 15. 43	B B	C	
ATOM ATOM	11314 11315	CG2 C		688 688	84. 6 81. 7	387	41.115 39.048	36. 100 34. 687	1.00	18. 49 14. 74	В В В	C C C	
ATOM ATOM	11316 11317	O N	VAL MET	688 689	81. 1 81. 2	196	38. 188 39. 710	35. 350 33. 682	1.00	15. 40 13. 94	B B	O N	
ATOM	11318		MET	689	79.8		39. 496	33. 283		14. 18	В	Ċ	



					F I C	· 1 -	232			(Continued)
		an.								
ATOM ATOM	11319 11320	CB CG	MET MET	689 689	79. 519 79. 359	40. 287 41. 793	32. 010 32. 217	1. 00 14. 10 1. 00 18. 18	В	C
ATOM	11321	SD	MET	689	80. 817	41. 793	32. 849	1.00 18.18	B B	C S
ATOM	11322	CE	MET	689	81.693	43.067	31.308	1.00 19.11	В	C
ATOM	11323	Č	MET	689	79. 429	38. 040	33.080	1.00 13.11	В	Č
ATOM	11324	ŏ	MET	689	78. 398	37. 597	33. 586	1.00 14.01	B	Ö
ATOM	11325	Ň	SER	690	80. 246	37. 290	32. 356	1.00 14.32	В	N
<b>ATOM</b>	11326	CA	SER	690	79. 939	35. 887	32. 087	1.00 16.68	В	Č
ATOM	11327	CB	SER	690	81.018	35. 259	31.199	1.00 18.28	B	č
ATOM	11328	0G	SER	690	82.225	35.062	31.923	1.00 23.11	B	0
ATOM	11329	C	SER	690	79. 771	35.019	33.328	1.00 15.55	В	С
ATOM	11330	0	SER	690	79. 212	33. 927	33. 234	1.00 16.21	В	0
ATOM	11331	N	ARG	691	80. 238	35. 502	34. 478	1.00 14.35	В	N
ATOM	11332	CA	ARG	691	80. 155	34. 741	35. 727	1.00 15.38	В	C
ATOM	11333	CB	ARG	691	81.491	34. 821	36. 478	1.00 16.76	В	Ċ
ATOM	11334	CG	ARG	691	82. 697	34. 414	35. 652	1.00 19.96	В	C
ATOM ATOM	11335 11336	CD NE	ARG ARG	691 691	83. 972	34. 339	36. 483	1.00 21.36	В	C
ATOM	11337	CZ	ARG	691	85. 061 86. 196	33. 725 33. 274	35. 726	1.00 23.56	В	N
ATOM	11338	NH1		691	86.418	33. 358	36. 256 37. 567	1.00 26.24 1.00 23.55	В	C
ATOM	11339	NH2		691	87. 114	32. 728	35. 468	1.00 25.33	B B	N N
ATOM	11340	C	ARG	691	79. 049	35. 187	36.679	1.00 20.33	В	Č
ATOM	11341	Ŏ	ARG	691	78. 986	34. 713	37.817	1.00 14.38	В	0
ATOM	11342	N	ALA	692	78. 178	36.081	36. 220	1.00 14.78	В	N
ATOM	11343	CA	ALA	692	77.111	36.618	37.064	1.00 16.42	B	Ċ
ATOM	11344	CB	ALA	692	76. 105	37. 383	36.198	1.00 16.75	B	Č
ATOM	11345	C	ALA	692		35.624	37.977	1.00 17.17	В	Č
ATOM	11346	0	ALA	692		35.814	39. 191	1.00 16.75	В	0
ATOM	11347	N	GLU	693		34. 571	37.404	1.00 19.44	В	N
ATOM	11348	CA	GLU	693		33. 589	38. 191	1.00 22.16	В	C
ATOM	11349	CB	GLU	693	74. 570	32. 443	37. 299	1.00 26.71	В	C
ATOM ATOM	11350 11351	CG CD	GLU	693	73. 251	32. 745	36. 598	1.00 33.79	В	C
ATOM	11351		GLU GLU	693 693		31.873	35. 379	1.00 38.47	В	C
ATOM	11353		GLU	693		30. 632 32. 433	35. 531	1.00 40.41	В	0
ATOM	11354	C	GLU	693		32. 433 33. 022	34. 266 39. 369	1.00 41.15 1.00 22.08	В	0
ATOM	11355	ŏ	GLU	693		32. 761	40.418	1.00 24.44	B B	C
ATOM	11356	Ň	ASN	694		32. 824	39. 215	1.00 21.66	В	O N
ATOM	11357	CA	ASN	694		32. 282	40. 320	1. 00 22. 61	В	C
ATOM	11358	CB	ASN	694		31.924	39. 861	1. 00 20. 93	В	Č
ATOM	11359	CG	ASN	694		30.654	39.048	1.00 19.32	B	č
ATOM	11360		ASN	694		30. 420	38. 278	1.00 19.68	B	Ö
ATOM	11361		ASN	694		29.818	39. 224	1.00 18.34	В	N
ATOM	11362	C	ASN	694		33. 234		1.00 22.99	В	С
ATOM	11363	0	ASN	694				1.00 25.59	В	0
ATOM	11364	N	PHE	695				1.00 22.83	В	N
ATOM ATOM	11365 11366	CA CB	PHE PHE	695				1.00 23.74	В	C
ATOM	11367	CG	PHE	695 695				1.00 20.88	В	C
111 0111	11001	U	نللت	UJU	78. 533	37. 397	41.695	1.00 19.06	В	C

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					(Continued)
				FIG. 4-234	(00000000000000000000000000000000000000
ATOM	11417	CZ TYR	700	81. 231 42. 707 42. 241 1. 00 19. 61 B	С
ATOM	11418	OH TYR	700	81. 964 43. 170 41. 176 1. 00 20. 17 B	Õ
ATOM	11419	C TYR	700	78. 697 42. 902 46. 972 1. 00 18. 20 B	Č
ATOM	11420	0 TYR	700	77. 534 43. 288 47. 006 1. 00 19. 67 B	0
ATOM	11421	N LEU	701	79. 748 43. 714 47. 078 1. 00 16. 71 B	N
ATOM	11422	CA LEU	701	79. 628 45. 157 47. 198 1. 00 15. 24 B	C
ATOM	11423	CB LEU	701	80. 102 45. 624 48. 573 1. 00 14. 82 B	C
ATOM	11424	CG LEU	701	80. 195 47. 141 48. 768 1. 00 15. 42 B	C
ATOM	11425	CD1 LEU	701	78. 926 47. 810 48. 280 1. 00 16. 37 B	C
ATOM	11426	CD2 LEU	701	80. 449 47. 456 50. 233 1. 00 13. 32 B	C
ATOM	11427	C LEU	701	80. 491 45. 770 46. 095 1. 00 16. 15 B	C
ATOM	11428	0 LEU	701 702	81. 714 45. 617 46. 082 1. 00 16. 12 B	0 N
ATOM ATOM	11429 11430	N LEU CA LEU	702	79. 829 46. 450 45. 167 1. 00 14. 91 B 80. 467 47. 073 44. 019 1. 00 13. 94 B	N C
ATOM	11430	CB LEU	702	79. 730 46. 627 42. 753 1. 00 15. 12 B	Č
ATOM	11432	CG LEU	702	80.119 47.175 41.383 1.00 15.68 B	č
ATOM	11433	CD1 LEU	702	81.555 46.814 41.050 1.00 14.64 B	č
ATOM	11434	CD2 LEU	702	79.173 46.593 40.354 1.00 16.45 B	č
ATOM	11435	C LEU	702	80. 419 48. 590 44. 169 1. 00 14. 21 B	Č
<b>ATOM</b>	11436	0 LEU	702	79. 346 49. 166 44. 314 1. 00 14. 96 B	0
ATOM	11437	N ILE	703	81.591 49.220 44.132 1.00 13.90 B	N
ATOM	11438	CA ILE	703	81. 737 50. 662 44. 294 1. 00 13. 91 B	C
ATOM	11439	CB ILE	703	82. 543 50. 967 45. 578 1. 00 13. 87 B	С
ATOM	11440	CG2 ILE	703	82. 693 52. 491 45. 775 1. 00 15. 37 B	C
ATOM	11441	CG1 ILE	703	81. 869 50. 308 46. 782 1. 00 12. 11 B	C
ATOM	11442	CD1 ILE	703	82. 714 50. 328 48. 047 1. 00 7. 95 B	C
ATOM ATOM	11443 11444	C ILE	703 703	82. 495 51. 251 43. 101 1. 00 15. 43 B 83. 379 50. 600 42. 548 1. 00 17. 12 B	C
ATOM	11444	N HIS	703 704	83. 379 50. 600 42. 548 1. 00 17. 12 B 82. 175 52. 484 42. 714 1. 00 14. 44 B	O N
ATOM	11446	CA HIS	704	82. 866 53. 098 41. 579 1. 00 14. 11 B	C
ATOM	11447	CB HIS	704	82. 483 52. 356 40. 288 1. 00 12. 85 B	Č
ATOM	11448	CG HIS	704	83. 539 52. 386 39. 224 1. 00 13. 44 B	č
<b>ATOM</b>	11449	CD2 HIS	704	84. 363 53. 377 38. 806 1. 00 12. 54 B	č
ATOM	11450	ND1 HIS	704	83. 827 51. 293 38. 435 1. 00 12. 00 B	N
ATOM	11451	CE1 HIS	704	84. 782 51. 607 37. 578 1. 00 10. 09 B	C
ATOM	11452	NE2 HIS	704	85. 125 52. 865 37. 782 1. 00 12. 68 B	N
ATOM	11453	C HIS	704	82. 533 54. 584 41. 457 1. 00 13. 37 B	С
ATOM	11454	0 HIS	704	81. 420 55. 007 41. 770 1. 00 15. 67 B	0
ATOM	11455	N GLY	705	83. 513 55. 372 41. 027 1. 00 10. 99 B	N
ATOM	11456	CA GLY	705	83. 308 56. 798 40. 860 1. 00 10. 39 B	C
ATOM ATOM	11457 11458	C GLY	705	82. 807 57. 082 39. 457 1. 00 10. 13 B 83. 326 56. 536 38. 483 1. 00 11. 85 B	C
ATOM	11456	O GLY N THR	705 706	83. 326 56. 536 38. 483 1. 00 11. 85 B 81. 805 57. 942 39. 347 1. 00 10. 36 B	O N
ATOM	11460	CA THR	706	81. 215 58. 272 38. 054 1. 00 10. 30 B	C
ATOM	11461	CB THR	706	79. 935 59. 072 38. 232 1. 00 6. 56 B	Č
ATOM	11462	OG1 THR	706	80. 251 60. 367 38. 739 1. 00 8. 64 B	ŏ
<b>ATOM</b>	11463	CG2 THR	706	79. 025 58. 372 39. 215 1. 00 8. 26 B	č
ATOM	11464	C THR	706	82. 145 59. 052 37. 147 1. 00 11. 88 B	Ċ
ATOM	11465	0 THR	706	81. 994 59. 018 35. 927 1. 00 13. 83 B	0

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					FIC	G. 4-	235			(Continued)
ATOM ATOM	11466 11467	N CA	ALA ALA	707 707	83. 114 84. 075	59. 741 60. 522	37. 739 36. 969	1.00 13.21 1.00 14.57	B B	N C
ATOM	11468	CB	ALA	707	84. 277	61.881	37. 626	1.00 17.64	В	Č
ATOM	11469	C	ALA	707	85. 427	59. 823	36. 802	1.00 13.77	В	č
ATOM	11470	Ŏ	ALA	707	86. 445	60. 484	36. 639	1.00 14.15	B	Ŏ
ATOM	11471	N	ASP	708	85.435	58. 494	36.839	1.00 13.35	В	N
ATOM	11472	CA	ASP	708	86.667	57. 721	36.685	1.00 12.65	В	С
ATOM	11473	CB	ASP	708	86.439	56. 285	37.188	1.00 12.24	В	C
ATOM	11474	CG	ASP	708	87. 737	55. 536	37.453	1.00 10.05	В	C
ATOM	11475	0D1		708	88. 738	55. 775	36. 749	1.00 11.19	В	0
ATOM	11476		ASP	708	87. 751	54.686	38. 362	1.00 9.31	В	0
ATOM	11477	C	ASP	708	87. 091	57.696	35. 202	1.00 13.18	В	C
ATOM	11478	0	ASP	708	86. 475	57. 023	34. 368	1.00 13.78	В	0
ATOM	11479	N	ASP	709	88. 156	58. 423	34.891	1.00 12.80	В	N
ATOM	11480	CA	ASP	709	88. 679	58. 520	33. 534	1.00 12.65	В	C
ATOM ATOM	11481 11482	CB CG	ASP ASP	709 700	89.442	59. 825	33. 397	1.00 11.74	В	C
ATOM	11483		ASP	709 709	90.612 91.704	59. 912 59. 385	34. 366	1.00 9.63	В	C
ATOM	11484		ASP	709	90.419	60. 499	34. 058 35. 451	1.00 2.39 1.00 11.84	B B	0
ATOM	11485	C	ASP	709	89. 605	57. 366	33. 167	1.00 11.84	В	C
ATOM	11486	ŏ	ASP	709	89. 896	57. 136	31.987	1.00 14.37	В	0
ATOM	11487	Ň	ASN	710	90.076	56.652	34. 182	1.00 13.58	В	N
ATOM	11488	ĊA	ASN	710	90. 981	55. 524	33. 990	1.00 13.56	B	Č
ATOM	11489	CB	ASN	710	91.841	55. 385	35. 243	1.00 13.26	B	č
ATOM	11490	CG	ASN	710	92.987	54.440	35.059	1.00 12.07	B	č
ATOM	11491	0D1	ASN	710	93.951	54.478	35.821	1.00 16.69	B	0
ATOM	11492	ND2	ASN	710	92.898	53. 578	34.058	1.00 8.28	В	N
ATOM	11493	C	ASN	710	90. 177	54. 236	33.724	1.00 14.26	В	C
ATOM	11494	0	ASN	710	90. 142	53. 737	32.598	1.00 14.29	В	0
ATOM	11495	N	VAL	711	89. 560	53.692	34.773	1.00 13.24	В	N
ATOM	11496	CA	VAL	711	88. 715	52.511	34. 652	1.00 12.56	В	C
ATOM	11497	CB	VAL	711	88. 835	51.585	35. 868	1.00 11.72	В	С
ATOM	11498		VAL	711	88. 048	50. 311		1.00 7.36	В	C
ATOM	11499		VAL	711	90. 287	51.274	36. 141	1.00 13.94	В	C
ATOM ATOM	11500 11501	C 0	VAL VAL	711 711	87. 315	53.119	34. 645	1.00 14.01	В	C
ATOM	11501	N	HIS	711	86. 768 86. 746	53. 471 53. 249	35. 694	1.00 13.52	В	0
ATOM	11502		HIS	712	85. 440	53. 869	33. 456 33. 290	1.00 13.66 1.00 13.44	В	N C
ATOM	11504		HIS	712	85. 132	53.956	31. 794	1.00 13.44	B B	C
ATOM	11505		HIS	712	86. 219	54.613	31. 001	1.00 12.94	В	C C
ATOM	11506		HIS	712	87. 137	55. 549	31.352	1.00 14.50	В	C
ATOM	11507		HIS	712	86. 477	54. 299	29. 684	1.00 15.76	В	N
ATOM	11508		HIS	712	87.510	55.009	29. 258	1.00 17.42	В	Ċ
ATOM	11509	NE2	HIS	712	87. 928	55.775	30. 251	1.00 16.57	B	N
ATOM	11510	C	HIS	712	84. 293	53.205	34.048	1.00 13.09	B	Ċ
ATOM	11511	0	HIS	712	84. 208	51.983	34.148	1.00 13.25	В	0
ATOM	11512	N	PHE	713	83. 420	54.041	34. 594	1.00 13.27	В	N
ATOM	11513		PHE	713	82. 253	53. 586	35. 335	1.00 15.36	В	C
ATOM	11514	CB	PHE	713	81. 288	54.759	35. 530	1.00 15.17	В	С

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							(Continued)
					F I G. 4 - 236		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11515 11516 11517 11518 11519 11520 11521 11522 11523 11524 11525 11526 11527 11528 11530 11531 11532 11533 11534 11535 11536 11537 11540 11541 11542 11543 11544 11545 11548	CD2 CE1 CE2 CZ C O N CA CB CG CD OE1 NE2 C O N CA CB CG CD OE1 NE2 C O N CA CB CG O N CA CB CC O N CA CB CD O N CD O	PHHEHHENNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	713 713 713 713 713 713 713 714 714 714 714 714 715 715 715 715 715 716 716 716 716 717 717	FIG. 4 - 236  80.156 54.464 36.461 1.00 16.61 80.346 54.508 37.841 1.00 14.51 78.901 54.111 35.962 1.00 15.42 79.304 54.204 38.710 1.00 14.71 77.848 53.803 36.829 1.00 15.24 78.051 53.849 38.204 1.00 13.41 81.586 52.486 34.499 1.00 16.62 81.015 51.527 35.031 1.00 16.48 81.673 52.649 33.181 1.00 15.73 81.121 51.699 32.228 1.00 16.08 81.753 51.923 30.857 1.00 14.90 81.699 50.703 29.946 1.00 16.13 82.661 50.811 28.770 1.00 15.37 83.821 51.167 28.943 1.00 15.11 82.183 50.493 27.577 1.00 15.35 81.372 50.256 32.650 1.00 16.29 80.512 49.389 32.487 1.00 17.82 82.554 49.997 33.192 1.00 14.60 82.900 48.646 33.593 1.00 14.55 84.395 48.581 33.926 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.22 85.270 49.086 32.767 1.00 16.21 86.470 47.029 32.674 1.00 17.54 87.601 48.889 32.155 1.00 12.78 82.031 48.134 34.746 1.00 14.99 81.616 46.967 34.749 1.00 13.70 81.742 49.002 35.714 1.00 12.14 80.893 48.602 36.829 1.00 11.18 81.057 49.544 38.028 1.00 11.19 82.278 49.295 38.700 1.00 13.48 79.432 48.570 36.394 1.00 9.18 78.682 47.692 36.814 1.00 5.81 79.026 49.517 35.552 1.00 8.69 77.639 49.537 35.083 1.00 10.91	B B B B B B B B B B B B B B B B B B B	C C C C C C O N C C C C O N C C C C O N C C C O N C C O N C C O N C C O N C C O N C O N C C O N C O N C C O N C O
ATOM ATOM ATOM ATOM	11550 11551 11552	C O N	ALA ALA GLN	717 717 718	77. 304 48. 219 34. 382 1. 00 10. 72 76. 212 47. 696 34. 539 1. 00 14. 08 78. 252 47. 682 33. 623 1. 00 10. 89	B B B	C O N
ATOM ATOM ATOM	11553 11554 11555 11556	CA CB CG CD	GLN GLN GLN GLN	718 718 718 718	78. 052 46. 417 32. 928 1. 00 10. 32 79. 137 46. 224 31. 858 1. 00 8. 83 79. 074 47. 232 30. 722 1. 00 6. 53 78. 002 46. 900 29. 691 1. 00 8. 70	B B B	C C C
ATOM ATOM ATOM ATOM	11557 11558 11559 11560		GLN GLN GLN GLN	718 718 718 718	76. 970 46. 319 30. 012 1. 00 13. 43 78. 243 47. 278 28. 449 1. 00 11. 12 78. 056 45. 235 33. 908 1. 00 10. 68 77. 357 44. 248 33. 695 1. 00 13. 48	B B B	O N C
ATOM ATOM ATOM	11561 11562 11563	N CA CB	ILE ILE ILE	719 719 719	78. 834 45. 320 34. 981 1. 00 12. 24 78. 851 44. 226 35. 953 1. 00 12. 41 79. 892 44. 434 37. 079 1. 00 12. 88	B B B	O N C C
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(Continued) FIG. 4-237 79.550 43.532 1.00 9.78  $\mathbf{C}$ **ATOM** 11564 CG2 ILE 719 38. 266 В CG1 ILE 719 81.302 44.131 36.560 1.00 13.61 **ATOM** 11565 В 37.643 C 82.383 11566 CD1 ILE 719 44.146 1.00 12.97 B ATOM 1.00 12.95 C **ATOM** 11567 ILE 719 77.494 44.134 36.621 В C **ATOM** 11568 0 ILE 719 76.932 43.049 36.757 1.00 13.41 В 0 720 76.979 45.286 37.043 1.00 12.96 **ATOM** 11569 SER В N N 75.694 45.345 37.716 1.00 13.07 **ATOM** 11570 CA SER 720 В C 11571 **ATOM** CB **SER** 720 75.418 46.771 38.211 1.00 12.56 В C 75.435 **ATOM** 11572 0G SER 720 47.716 37.147 1.00 15.69 В 0 74.558 720 44.865 C **ATOM** 11573 SER 36.814 1.00 14.11 В C **ATOM** 11574 **SER** 720 73.712 44.073 37.238 1.00 13.45 0 В 0 74.536 45.329 **ATOM** 11575 N LYS 721 35.569 1.00 12.91 В N **ATOM** CA LYS 73.474 44.919 1.00 14.31 11576 721 34.664 В C **ATOM** 11577 CB LYS 721 73.647 45.596 33.303 1.00 14.17 C В LYS 72.613 45.188 C 11578 CG 721 32.264 1.00 10.06 **ATOM** В **ATOM** 11579 CD LYS 721 72.241 46.368 31.378 1.00 10.77 В C 11580 LYS C **ATOM** CE 721 73.427 46.932 30.611 1.00 9.97 В **ATOM** 11581 LYS 721 73.939 45.970 NZ 29.595 1.00 11.67 N B 11582 C 73.431 43.396 **ATOM** LYS 721 34.504 1.00 15.75 В C **ATOM** 11583 0 72.349 42.803 LYS 721 34.403 1.00 14.39 В 0 **ATOM** 11584 N **ALA** 722 74.605 42.766 34.501 1.00 14.45 В N **ATOM** 11585 722 74.684 41.320 34.353 CA **ALA** 1.00 13.03 В C **ATOM** 11586 CB ALA 722 76.137 40.889 34.146 1.00 11.46 C B **ATOM** 11587 **ALA** 722 74.083 40.607 35.564 C 1.00 14.14 C B **ATOM** 11588 73.369 35.417 0 **ALA** 722 39.606 1.00 14.70 В 0 **ATOM** 11589 N LEU 723 74.358 41.124 36.758 1.00 13.91 В N **ATOM** 11590 73.832 CA LEU 723 40.520 37.974 1.00 15.06 В C **ATOM** 11591 CB LEU 74.442 723 41.184 39.204 1.00 16.63 C В **ATOM** 11592 LEU 723 75.957 40.999 CG 39.306 1.00 16.43 В C **ATOM** 11593 CD1 LEU 723 76.504 41.863 40.415 1.00 18.97 C В 76.280 ATOM 11594 CD2 LEU 723 39.535 39.546 1.00 15.22 C В ATOM 11595 LEU 72.323 1.00 16.46 C 723 40.668 37.980 В C ATOM 11596 LEU 723 71.586 39.731 0 38.310 1.00 18.39 В 0 **ATOM** 11597 VAL N 724 71.858 41.849 37.604 1.00 16.97 В N **ATOM** 11598 CA VAL 724 70.429 42.079 1.00 17.76 37.533 В C **ATOM** 11599 VAL 724 70.126 43.526 CB 37.084 1.00 17.79 C B ATOM 11600 CG1 VAL 68.660 43.678 724 36.728 1.00 18.59 В C ATOM 11601 CG2 VAL 724 70.479 44.487 38.213 1.00 19.61 B C **ATOM** 11602 VAL 724 69.844 41.079 C 36.532 1.00 18.06 B C 68.824 724 **ATOM** 11603 0 VAL 40.441 36.800 1.00 16.03 B 0 11604 N **ASP** 725 70.509 40.920 **ATOM** 35.391 1.00 19.41 В N **ATOM** 11605 CA ASP 725 70.015 39.999 34.379 1.00 21.58 В C **ATOM ASP** 11606 CB 725 70.965 39.930 33.191 1.00 23.71 В C **ATOM ASP** 70.957 11607 CG 725 41.197 32.372 1.00 27.35 B C OD1 ASP 11608 725 69.919 ATOM 41.895 32.368 1.00 27.29 B 0 OD2 ASP **ATOM** 11609 725 71.983 41.486 31.717 1.00 31.72 B 0 **ASP** 11610 C 725 69.748 **ATOM** 38.591 34.893 1.00 22.63 В C

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37.974

38.075

34.474

35. 781

1.00 24.48

1.00 20.53

В

B

0

N

68.763

70.607

**ASP** 

VAL

725

726

0

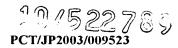
N

11611

11612

**ATOM** 

ATOM



(Continued) FIG. 4-238 1.00 17.93 726 70.409 36.726 36.329 В C CA VAL **ATOM** 11613 36.392 1.00 19.28 C 726 71.727 35.920 B VAL **ATOM** 11614 CB 35.672 34.994 1.00 19.33 C 72.246 B CG1 VAL 726 **ATOM** 11615 72.763 36.660 37.238 1.00 19.80 B C 11616 CG2 VAL 726 **ATOM** 726 69.789 36.741 37.723 1.00 17.35 В C VAL **ATOM** 11617 C 1.00 16.63 69.858 35.756 38.463 B 0 726 VAL **ATOM** 11618 0 1.00 17.14 69.198 37.875 38.081 B N **ATOM** 11619 N **GLY** 727 11620 **GLY** 727 68.548 38.012 39.370 1.00 15.42 B C **ATOM** CA 69.387 37.856 40.626 1.00 15.90 B C 727 **GLY** 11621 C **ATOM** 1.00 17.97 41.559 68.961 37.182 В 0 727 **ATOM** 11622 0 GLY 70.568 38.462 40.675 1.00 15.07 В ATOM 11623 N VAL 728 N 728 71.389 38.357 41.876 1.00 14.10 B C **ATOM** 11624 CA VAL 72.859 37.972 1.00 14.97 C 41.574 В 11625 VAL 728 **ATOM** CB 73.693 38.145 42.829 1.00 13.51 C 11626 CG1 VAL 728 В **ATOM** 36.514 41.109 1.00 15.40 C 11627 CG2 VAL 728 72.954 B ATOM 71.396 42.603 1.00 14.73 C 11628 VAL 728 39.687 B **ATOM** C 728 71.738 40.714 42.025 1.00 14.56 В 0 11629 VAL **ATOM** 0 71.007 39.672 43.872 1.00 15.13 B **ATOM** 11630 N **ASP** 729 N 729 70.998 40.896 44.646 1.00 15.32 B C 11631 CA **ASP** ATOM ATOM 729 70.146 40.731 45.903 1.00 15.31 11632 CB **ASP** В C 729 70.034 42.019 46.696 1.00 18.11 11633 В C **ATOM** CG **ASP** OD1 ASP 729 69.663 43.055 46.104 1.00 20.57 В 11634 0 ATOM OD2 ASP 729 70.317 42.011 47.907 1.00 20.06 В **ATOM** 11635 0 41.185 45.021 1.00 16.27 **ATOM** 729 72.441 C 11636 **ASP** B C 729 73.253 40.270 45.117 1.00 17.70 B **ATOM** 11637 0 **ASP** 0 **ATOM** 11638 N PHE 730 72.772 42.454 45.211 1.00 16.74 B N 45.579 PHE 74.136 42.824 1.00 16.43 **ATOM** 11639 CA 730 B C **ATOM** PHE 730 75.061 42.734 44.361 1.00 13.47 В 11640 CB C PHE 730 74.744 43.728 43.304 1.00 12.81  $\mathbf{C}$ **ATOM** 11641 CG В 75.282 CD1 PHE 45.006 **ATOM** 11642 730 43.355 1.00 12.64 В C 73.828 **ATOM** 11643 CD2 PHE 730 43.423 42.303 1.00 12.46 C В ATOM 74.907 45.966 11644 CE1 PHE 730 42.432 1.00 11.61 C В CE2 PHE 44.377 41.376 **ATOM** 11645 730 73.446 1.00 9.11 В C 11646 PHE 730 73.986 45.653 41.443 1.00 10.39 В C **ATOM** CZ ATOM 74.112 44.242 1.00 17.87 C 11647 PHE 730 46.114 В C 44.928 46.014 73.094 1.00 19.72 PHE 730 **ATOM** 11648 0 B 0 **ATOM** 11649 N **GLN** 731 75.230 44.673 46.689 1.00 18.41 B N 75.344 46.015 47.246 1.00 17.25 **ATOM** 11650 CA **GLN** 731 B C 731 76.089 45.961 48.569 1.00 18.02 C 11651 **GLN** B ATOM CB ATOM 731 75.547 44.948 49.536 1.00 25.59 11652 CG GLN В C 731 74.087 45.183 49.854 1.00 29.48 В **ATOM** 11653 CD GLN C 73.699 46.275 **ATOM** 11654 0E1 GLN 731 50.281 1.00 31.32 В 0 1.00 32.13 73.263 44.157 NE2 GLN 731 49.647 В **ATOM** 11655 N 76.124 46.889 46.272 1.00 16.69 **ATOM** 11656 C GLN 731 B C ATOM 11657 **GLN** 731 77.060 46.417 45.623 1.00 13.71 0 B 0 75.737 46.172 732 48.158 1.00 15.59 **ATOM** 11658 N **ALA** В N 732 76.425 45.284 1.00 15.79 11659 **ALA** 49.084 B C ATOM CA 732 75.718 1.00 15.47 C **ATOM** 11660 CB **ALA** 49.147 43.946 B 1.00 17.21

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50.486

45.867

B

76.540

732

**ALA** 

ATOM

11661

												(Cont	inued)
						FI	G. 4-	2 3 9				•	
ATOM	11662	0	ALA	732	7	5. 769	50. 897	46. 734	1.00	17. 93	В	0	
ATOM	11663	N	MET	733		7. 528		45.382	1.00	17.27	В	N	
ATOM	11664	CA	MET	733		7. 737		45.812	1.00	17.39	В	С	
ATOM	11665	CB	MET	733		8. 500		47.136	1.00	18.98	В	С	
ATOM	11666	CG	MET	733		8.775		47.661	1.00	18.20	В	С	
ATOM	11667	SD	MET	733	7	7.278	54.979	47.988	1.00	21.42	В	S	
ATOM	11668	CE	MET	733		6. 781	54. 324	49.578	1.00	19.12	В	C	
ATOM	11669	C	MET	733	7	8.539	53. 268	44.719	1.00	17.47	В	C	
ATOM	11670	0	MET	733	7	9.604	52.783	44.318	1.00	17.30	В	0	
ATOM	11671	N	TRP	734	7	8.007	54.378	44.220	1.00	16.37	В	N	
ATOM	11672	CA	TRP	734	7	8.673	55. 147	43.175	1.00	15.48	В	С	
ATOM	11673	CB	TRP	734	7	7. 685	<b>55. 428</b>	42.033	1.00	14.82	В	C	
ATOM	11674	CG	TRP	734	7	6. 691	56. 523	42. 353	1.00	14.06	В	С	
ATOM	11675	CD2	TRP	734	7	5. 299	56.363	42.650	1.00	12.49	В	С	
ATOM	11676	CE2	TRP	734	7	4. 785	57. 645	42.939	1.00	12.15	В	C	
ATOM	11677	CE3	TRP	734		4. 437		42.701		12.01	В	C	
ATOM	11678		TRP	734		6. 953		42. 468		12.61	В	C	
ATOM	11679		TRP	734		5.817		42.821		13.60	В	N	
ATOM	11680		TRP	734		3. 449		43.276		11.75	В	С	
ATOM	11681		TRP	734		3. 115		43.034		13. 39	В	С	
ATOM	11682		TRP	734		2. 629		43. 319		13. 13	В	С	
ATOM	11683	C	TRP	734		9. 111	56. 457	43. 831		13.60	В	C	
ATOM	11684	0	TRP	734		8. 491	56. 881	44.788		14.71	В	0	
ATOM	11685	N	TYR	735		0.174		43.346		13. 31	В	N	
ATOM	11686	CA	TYR	735		0. 598		43.926		12.17	В	C	
ATOM	11687	CB	TYR	735		1.990		44. 575		10.49	В	Ċ	
ATOM	11688	CG	TYR	735		1.964		45. 920		10.18	В	C	
ATOM	11689		TYR	735		1.464		47.045		11.23	В	C	
ATOM	11690		TYR	735		1.321	57. 567	48. 272		11.72	В	C	
ATOM	11691		TYR	735		2.336		46.052		11.30	В	C	
ATOM	11692		TYR	735		2. 198		47. 270		11.75	В	C	
ATOM	11693	CZ	TYR	735		1.687	56. 235	48. 372		12.02	В	C	
ATOM	11694		TYR	735		1.511	55. 564	49. 563		13. 79	В	0	
ATOM	11695	C	TYR	735		0. 595		42.845		14. 20	В	C	
ATOM	11696	0	TYR	735		1.391	59.393	41.910		15. 56	В	0	
ATOM	11697	N	THR	736		9.669		42.977		15.66	В	N	
ATOM	11698	CA	THR	736		9.517		42.026		14.01	В	C	•
ATOM	11699	CB	THR	736		8. 395		42.469		13.01	В	C	
ATOM	11700	0G1		736		7. 163		42.534		13.00	В	0	
ATOM	11701		THR	736		8.256		41.503		11.91	В	C	
ATOM	11702	C	THR	736		0. 789		41.882		16.80	В	C	
MOTA	11703	0 M	THR	736		1.357		42.875		19.71	B	0 N	
ATOM	11704	N	ASP	737		1.230		40.640 40.322		16.82 15.22	B B	N	
ATOM	11705	CA	ASP	737 737		2. 407	63. 257 64. 728	40. 322		15. 24	В	C C	•
ATOM	11706	CB	ASP	737 737		2. 151	65. 380	40. 084 39. 785		17.61	В	C	
ATOM	11707 11708	CG	ASP ASP	737		1. 101 0. 697		38. 779		16.59	В	0	
ATOM ATOM	11708		ASP	737		0. 680		40. 078		19. 23	В	0	
ATOM	11709	C	ASP	737		o. 080 3. 737		40.078		15. 17	В	č	
VION	11/10	U	UOI	101	o	0. (0)	04.011	TU. 314	1.00	10.11	ע	U	

						(Continued)
				FIG. 4-240		(Continued)
					n 1 1 00 P	0
ATOM	11711	O ASP	737		0 14.33 B	0
ATOM	11712	N GLU	738		0 14.73 B	N C
ATOM	11713	CA GLU	738		O 14.51 B B D 15.23 B	C C
ATOM	11714	CB GLU	738		O 15. 23 B B O 16. 91 B	C
ATOM	11715	CG GLU	738		0 19. 02 B	C
ATOM	11716	CD GLU	738		0 19.02 B	0
ATOM	11717	OE1 GLU OE2 GLU	738 738		0 19.97 B	0
ATOM	11718	C GLU	738		0 13.36 B	C
ATOM ATOM	11719 11720	O GLU	738		0 13.30 B	ŏ
ATOM	11720	N ASP	739		0 12.47 B	N
ATOM	11721	CA ASP	739		0 12.05 B	Č
ATOM	11723	CB ASP	739		0 12.46 B	č
ATOM	11724	CG ASP	739		0 16.27 B	č
ATOM	11725	OD1 ASP	739		0 16.93 B	ŏ
ATOM	11726	OD2 ASP	739		0 16.75 B	Ö
ATOM	11727	C ASP	739		0 13.65 B	Č
ATOM	11728	0 ASP	739		0 14.63 B	0
ATOM	11729	N HIS	740		0 12.45 B	Ň
ATOM	11730	CA HIS	740		0 12.91 B	C
ATOM	11731	CB HIS	740		D 12. 28 B	Ċ
ATOM	11732	CG HIS	740		D 12.12 B	C
ATOM	11733	CD2 HIS	740		D 12.56 B	С
ATOM	11734	ND1 HIS	740		0 12.00 B	N .
ATOM	11735	CE1 HIS	740	90.697 52.256 39.136 1.00	0 11.97 B	C
ATOM	11736	NE2 HIS	740	92.006 52.419 39.194 1.00	) 12.98 B	N
ATOM	11737	C HIS	740		) 14.77 B	С
ATOM	11738	O HIS	740		0 16.10 B	0
ATOM	11739	N GLY	741		) 14.45 B	N
ATOM	11740	CA GLY	741		D 13. 32 B	C
ATOM	11741	C GLY	741		) 14.78 B	C
ATOM	11742	O GLY	741		0 16.71 B	0
ATOM	11743	N ILE	742		0 14.08 B	N
ATOM	11744	CA ILE	742		0 14.39 B	C
ATOM	11745	CB ILE	742		) 14.12 B	C
ATOM	11746	CG2 ILE	742		0 13.12 B	C
ATOM	11747	CG1 ILE	742		13.94 B	C
ATOM	11748	CD1 ILE	742		0 10.86 B	C
ATOM ATOM	11749 11750	C ILE O ILE	742		D 15. 89 B B D 17. 67 B	C
ATOM	11751	O ILE N ALA	742 743		O 17. 67 B O 16. 48 B	O N
ATOM	11752	CA ALA	743		0 10.46 B	C
ATOM	11753	CA ALA	743		) 16.86 B	C
ATOM	11754	C ALA	743		0 16.53 B	C
ATOM	11755	0 ALA	743		0 18.69 B	ő
ATOM	11756	N SER	744		0 14. 28 B	Ň
ATOM	11757	CA SER	744		) 14.62 B	Ċ
ATOM	11758	CB SER	744		0 16.50 B	Č
ATOM	11759	OG SER	744		D 22.09 B	0

					FIC	S. 4-	2 4 1			(Continued)
ATOM	11760	С	SER	744	88. 515	63. 251	49. 390	1.00 15.05	В	C
ATOM	11761	0	SER	744	88. 136	62. 147	49.770	1.00 17.03	В	0
ATOM	11762	N	SER	745	88. 822	64. 223	50. 229	1.00 16.05	В	N
ATOM	11763	CA	SER	745	88. 712	64.051	51.666	1.00 15.38	В	C
ATOM	11764	CB	SER	745	88. 811	65.410	52. 361	1.00 15.23 1.00 20.36	B B	<b>0</b> .
ATOM	11765	OG	SER	745	88. 357	65.318	53.698	1.00 20.36	В	C
ATOM	11766	C	SER	745	87. 427	63. 360	52. 103 52. 773	1.00 14.58	В	0
ATOM	11767	0 N	SER	745 746	87. 467 86. 287	62. 334 63. 925	51. 728	1.00 13.04	В	N N
ATOM	11768	N CA	THR THR	746 746	85. 009	63. 355	52. 121	1.00 13.39	В	C
ATOM ATOM	11769 11770	CB	THR	746 746	83. 836	64. 299	51.755	1.00 12.40	В	Č
ATOM	11771	0G1	THR	746	83. 858	64. 579	50. 347	1.00 13.02	В	ŏ
ATOM	11772	CG2		746	83. 929	65. 599	52. 547	1.00 6.36	В	Č
ATOM	11773	C	THR	746	84. 748	61.982	51.513	1.00 13.71	B	č
ATOM	11774	ŏ	THR	746	84. 382	61.045	52. 215	1.00 13.77	B	Ö
ATOM	11775	N	ALA	747	84. 948	61.852	50. 211	1.00 15.70	B	Ň
ATOM	11776	ĊA	ALA	747	84. 698	60. 575	49. 556	1.00 17.75	B	Č
ATOM	11777	CB	ALA	747	84.918	60.698	48.047	1.00 18.85	В	С
ATOM	11778	C	ALA	747	85. 579	59.482	50.133	1.00 16.94	В	С
ATOM	11779	0	ALA	747	85. 136	EO 044	50.314	1.00 17.92	В	0
ATOM	11780	N	HIS	748	86.828	59.829	50.418	1.00 15.98	В	N
ATOM	11781	CA	HIS	748	87. 772	58.873	50.987	1.00 15.53	В	С
ATOM	11782	CB	HIS	748	89. 130	59. 547	51.194	1.00 14.50	В	C C C
ATOM	11783	CG	HIS	748	90. 106	58. 721	51.974	1.00 12.65	В	C
ATOM	11784		HIS	748	90. 772	58.979	53. 124	1.00 12.46	В	C
ATOM	11785		HIS	748	90.517	57. 472	51.566	1.00 11.91	В	N
ATOM	11786		HIS	748	91.397	56.998	52. 430	1.00 12.20	В	C
ATOM	11787		HIS	748	91.569	57. 893	53. 384	1.00 9.44	В	N
ATOM	11788	C	HIS	748	87. 259	58. 310	52. 316	1.00 15.00	В	C
ATOM	11789	0	HIS	748	87. 272	57. 097	52. 533	1.00 14.52	В	0
ATOM	11790	N	GLN	749	86. 808	59.196	53. 200	1.00 14.63	В	N
ATOM	11791	CA	GLN	749	86. 283	58. 780	54. 496	1.00 15.23	В	C
ATOM	11792	CB		749 740	86.045	59. 999 60. 722		1.00 15.87	В	C
ATOM ATOM	11793 11794	CG CD	GLN GLN	749 749	87. 314 87. 056	61.956	55. 740 56. 564	1.00 22.62 1.00 25.83	B B	C
ATOM	11794		GLN	749 749	86. 511	61.873	57.664	1.00 29.51	В	C 0
ATOM	11796		GLN	749	87. 443	63.116	56.039	1.00 27.64	В	N N
ATOM	11797	C	GLN	749	84. 984	57. 999	54.348	1.00 27.04	В	C
ATOM	11798	Ö	GLN	749	84. 749	57.015	55.054	1.00 14.10	В	ŏ
ATOM	11799	N	HIS	750	84. 147	58. 440	53. 415	1.00 13.44	В	Ň
ATOM	11800		HIS	750	82. 865	57. 808	53. 174	1.00 12.63	B	
ATOM	11801	CB	HIS	750	82. 021	58. 685	52. 247	1.00 13.59	B	č
ATOM	11802		HIS	750	80. 587	58. 272	52. 176	1.00 12.41	B	C C C
ATOM	11803		HIS	750	79. 475	58. 823	52.713	1.00 13.33	В	С
ATOM	11804		HIS	750	80.175	57.128	51.530	1.00 12.98	В	Ň
ATOM	11805		HIS	750	78.869	56.992	51.673	1.00 14.44	В	С
ATOM	11806		HIS	750	78.419	58.007	52.386	1.00 13.43	В	N
ATOM	11807	C	HIS	750	82. 985	56.404	<b>52.</b> 595	1.00 13.84	В	C
ATOM	11808	0	HIS	750	82. 265	55. 499	53.011	1.00 14.53	В	0

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				FIG. 4-242	(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11809 11810 11811 11812 11813 11814 11815 11816 11817 11820 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830 11831 11832 11833 11834 11835 11836 11837 11838 11839 11840 11841 11842 11843	N ILE CA ILE CB ILE CG2 ILE CG1 ILE C ILE	751 751 751 751 751 752 752 752 752 752 752 752 752 752 753 753 753 753 754 754 754 754 754 754 754 754 754 754	83. 885	N C C C C C C C C C C C C C C O C O N C C C C
ATOM ATOM ATOM	11844 11845 11846	C HIS O HIS N MET	754 754 755	81. 349 50. 731 53. 886 1. 00 16. 28 B 80. 639 49. 788 54. 238 1. 00 17. 31 B 82. 571 50. 564 53. 383 1. 00 15. 98 B	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11847 11848 11849 11850 11851 11852 11853 11854 11855 11856 11857	CA MET CB MET CG MET SD MET CE MET C MET O MET N SER CA SER CB SER OG SER	755 755 755 755 755 755 756 756 756 756	83. 158	C C C C O N C C O



(Continued) FIG. 4-243 82.515 48.282 57.462 1.00 19.14 В C 11858 C SER 756 ATOM 11859 756 82.464 47.158 57.975 1.00 19.94 В 0 ATOM SER 0 57.324 1.00 17.68 757 81.435 49.048 N ATOM В 11860 N HIS 57.770 1.00 19.20 757 80.134 48. 549 В C ATOM 11861 CA HIS C **ATOM** 11862 HIS 757 78.990 49.486 57.371 1.00 18.83 В CB 78.983 50.794 58.095 1.00 21.13 В C **ATOM** 11863 CG HIS 757 C 78.697 1.00 22.10 757 52.046 57.666 В 11864 CD2 HIS ATOM 50.899 79.230 59.447 1.00 22.62 **ATOM** 11865 ND1 HIS 757 В N 79.096 52.159 59.820 1.00 23.60 **ATOM** 11866 CE1 HIS 757 B C 58.758 1.00 24.81 757 78.772 52.876 В N 11867 NE2 HIS ATOM 47.190 1.00 17.94 ATOM 11868 HIS 757 79.866 57.120 В C C 57.772 79.416 46. 251 1.00 16.58 **ATOM** 11869 0 HIS 757 В 0 PHE 80.158 47.103 55.828 1.00 17.93 В N ATOM 11870 N 758 79.926 1.00 18.80 ATOM 11871 PHE 758 45.888 55.052 В C CA 80.286 ATOM 758 46.138 53.586 1.00 15.70 C 11872 PHE CB В ATOM 11873 CG PHE 758 79.952 44.997 52.677 1.00 10.77 В C 78.646 44.790 52.251 1.00 C **ATOM** 11874 CD1 PHE 758 8.39 В 80.941 44.120 11875 CD2 PHE 758 52.254 1.00 6.53 C **ATOM** В CE1 PHE 78.334 43.716 51.409 1.00 9.32 ATOM 11876 758 В C 11877 CE2 PHE 758 80.638 43.045 51.417 1.00 6.01 C ATOM B **ATOM** 11878 CZPHE 758 79.340 42.836 50.991 1.00 2.78 B C 11879 758 80.697 44.674 55.560 1.00 20.68 **ATOM** C PHE В C **ATOM** 11880 0 PHE 758 80.110 43.631 55.851 1.00 21.00 B 0 ATOM 11881 ILE 759 82.014 44.811 55.654 1.00 23.57 N B N **ATOM** 11882 CA ILE 759 82.858 43.722 56.117 1.00 25.05 В C 84.364 **ATOM** 11883 CB ILE 759 44.129 56.069 1.00 25.44 B C 759 84.994 **ATOM** 11884 CG2 ILE 44.041 57.437 1.00 28.98 B C 759 1.00 26.52 **ATOM** 11885 CG1 ILE 85.128 43.189 55.142 B C CD1 ILE ATOM 11886 759 84.706 43.263 53.704 1.00 26.84 В C **ATOM** 11887 ILE 759 82.441 43.318 57.529 1.00 25.34 C В C ATOM 11888 ILE 759 82.420 42.136 57.866 1.00 25.50 0 В 0 82.081 44.299 **ATOM** 11889 N LYS 760 58.346 1.00 26.11 В N 11890 81.671 ATOM CA LYS 760 44.012 59.713 1.00 26.62 В C 45.300 **ATOM** 11891 CB LYS 760 81.444 60.487 1.00 26.43 В C 11892 LYS 760 82.178 45.298 61.792 ATOM CG 1.00 29.00 В C 11893 LYS 760 83.666 45.271 61.537 1.00 28.96 **ATOM** CD C B 1.00 30.01 ATOM LYS 11894 CE 84.139 46.665 61.250 760 B C 1.00 31.29 ATOM 11895 NZ LYS 760 83.776 47.523 62.420 B N **ATOM** 11896 LYS 760 80.406 43.179 59.740 1.00 27.08 C B C 1.00 28.46 80.312 42.200 **ATOM** 11897 LYS 760 60.473 0 B 0 11898 ATOM 761 58.940 1.00 28.08 N GLN 79.431 43.581 B N **ATOM** 11899 **GLN** 761 78.170 42.866 58.844 1.00 29.69 CA B C ATOM 77.213 57.942 1.00 31.26 11900 CB GLN 761 43.652 В C ATOM 11901 CG 761 76.072 42,855 57.347 1.00 34.99 GLN B C 76.477 56.072 ATOM 11902 CD **GLN** 761 42.140 1.00 37.85 B C ATOM 11903 OE1 GLN 761 76.800 42.775 55.062 1.00 37.29 В 0 NE2 GLN 76.464 40.808 ATOM 11904 761 56. 112 1.00 39.80 В N 761 78.401 58.295 **ATOM** 11905 GLN 41.456 1.00 30.00 В C **GLN** 761 77.791 ATOM 11906 0 40.494 58.753 1.00 31.14 R 0



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(Continued) FIG. 4-244 57.320 1.00 29.71 В N 41.333 762 79. 291 CYS **ATOM** 11907 N C 56.731 1.00 30.30 В **CYS** 762 79.588 40.035 11908 CA **ATOM** C 57.712 1.00 30.21 В 80.275 39.077 **CYS** 762 11909 **ATOM** 1.00 29.67 В 0 80.153 37.860 57.578 CYS 762 11910 0 **ATOM** C 55.474 1.00 30.01 В 40.212 80.458 762 **ATOM** 11911 CB CYS S 1.00 33.72 В 54.849 38.665 11912 SG CYS 762 81.198 ATOM 1.00 30.53 N В PHE 763 .80.986 39.618 58.698 11913 N **ATOM** 38.783 59.664 1.00 31.28 В C 81.694 763 CA PHE 11914 ATOM 1.00 29.29 C В 59.885 83.112 39.310 11915 CB PHE 763 **ATOM** C B 58.736 1.00 27.21 CG PHE 763 84.052 39.057 11916 **ATOM** C 83.663 38.280 57.650 1.00 26.19 B CD1 PHE 763 11917 **ATOM** C 58.762 1.00 26.38 B 85.348 39.572 CD2 PHE 763 ATOM 11918 C 56.605 B 1.00 27.91 84.552 38.015 11919 CE1 PHE 763 ATOM 86.249 C 57.727 1.00 27.36 В 39.316 11920 CE2 PHE 763 **ATOM** 1.00 27.55 C 85.851 56.643 B 38.533 PHE 763 **ATOM** 11921 CZC 80.994 61.011 1.00 34.52 В 763 38.666 11922 PHE ATOM 61.908 1.00 32.78 B 0 81.473 37.970 PHE 763 11923 0 ATOM 1.00 39.49 79.862 39.346 61.151 В N 764 **ATOM** 11924 N SER 1.00 43.60 В C 79.099 39.319 62.393 11925  $\mathsf{C}\mathsf{A}$ SER 764 **ATOM** 77.860 40.199 62.273 1.00 44.56 B C 764 **ATOM** 11926 CB **SER** 1.00 50.05 78.218 41.528 61.948 В 0 764 11927 0G SER **ATOM** C 78.668 37.909 62.746 1.00 45.96 B 11928 764 SER **ATOM** 77.885 37.289 62.028 1.00 45.86 В 0 11929 0 SER 764 **ATOM** 63.856 1.00 49.22 79.189 37.404 B N 11930 N LEU 765 ATOM 64.317 1.00 52.03 В C 11931 LEU 765 78.845 36.070 CA **ATOM** 79.754 35.678 65.481 1.00 52.53 В C 11932 CB LEU 765 **ATOM** 1.00 52.85 C 81.234 35.558 65.115 В LEU 765 **ATOM** 11933 CG C 66.376 1.00 53.55 В **ATOM** 11934 CD1 LEU 765 82.074 35.452  $\mathbb{C}$ 81.435 34.344 64.214 1.00 52.54 В 11935 CD2 LEU 765 **ATOM** 64.761 1.00 54.34 C 77.383 36.069 В 765 11936 LEU **ATOM** C 1.00 53.63 В 0 77.019 36.721 65.743 **ATOM** 11937 0 LEU 765 76.523 1.00 56.38 11938 **PRO** 766 35.340 64.031 B N **ATOM** N 76.833 34.541 62.831 1.00 56.67 B C PRO 766 11939 CD ATOM 75.095 В C 64.356 1.00 57.95 35.263 11940 PR<sub>0</sub> 766 **ATOM** CA 74.509 1.00 58.24 C 34.544 63.141 B **ATOM** 11941 CB PR<sub>0</sub> 766 C 1.00 57.40 75.626 33.633 62.728 B **ATOM** 11942 CG **PRO** 766 74.805 65.664 1.00 59.30 В C 34.523 11943 C **PRO** 766 ATOM 73.791 1.00 60.29 33.789 65.711 В 0 **PRO** 766 **ATOM** 11944 0 75.584 34.704 1.00 59.84 B 11945 OXT PRO 766 66.627 ATOM B 766 TER 11946 PR<sub>0</sub> C 901 25.105 38.477 14.927 1.00 45.03 E 11947 C1 NAG **ATOM** 13.922 1.00 45.16 26.266 38.501 E C C2ATOM 11948 NAG 901 27.447 14.595 1.00 44.20 E N 11949 N2 901 39.002 **ATOM** NAG 28.662 38.702 14.153 1.00 43.63 E C **ATOM** 11950 **C7** NAG 901 13.997 1.00 44.60 37.546 E NAG 901 29.050 0 ATOM 11951 07 29.588 13.838 1.00 43.83 E C 39.864 ATOM 11952 **C8** NAG 901 1.00 46.38 C3NAG 901 25.942 39.385 12.713 E C **ATOM** 11953 39.235 11.728 1.00 49.49 E 0 26.953 NAG 901 **ATOM** 11954 03

38.987 **SUBSTITUTE SHEET (RULE 26)** 

12.124

24.591

C4

11955

**ATOM** 

NAG

901

1.00 47.76

C

E

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						(Continued)
					FIG. 4-245	(00110111000)
·4 mO) (	11056	0.4	MAC	001	24. 256 39. 836 11. 036 1. 00 49. 01 E	0
ATOM	11956	04	NAG	901		0 C
ATOM	11957	C5	NAG	901		0
ATOM	11958	05 C6	NAG	901		C
ATOM	11959	C6	NAG	901		0
ATOM	11960	06	NAG	901	=	C
ATOM	11961	C1	NAG	902		C
ATOM	11962	C2	NAG	902		N N
ATOM	11963	N2	NAG	902		
ATOM	11964	C7	NAG	902		C
ATOM	11965	07	NAG	902		0
ATOM	11966	C8	NAG	902		C C
ATOM	11967	C3	NAG	902		
ATOM	11968	03	NAG	902		0 C
ATOM	11969	C4	NAG	902		0
ATOM	11970	04 CE	NAG	902		C
ATOM	11971	C5	NAG	902		
ATOM	11972	05 C6	NAG	902		0
ATOM	11973	C6	NAG	902	34. 720 71. 114 3. 892 1. 00 30. 81 E 33. 457 71. 512 4. 409 1. 00 34. 26 E	C
ATOM	11974	06	NAG	902		0
ATOM	11975	C1	NAG	903		C
ATOM	11976	C2	NAG	903		C
ATOM	11977	N2	NAG	903	63. 551 77. 080 12. 116 1. 00 25. 19 E 62. 349 77. 076 11. 551 1. 00 24. 99 E	N C
ATOM	11978	C7	NAG	903 903		C
ATOM	11979	07 C8	NAG			0
ATOM ATOM	11980 11981	C3	NAG NAG	903 903		C
ATOM	11981	03	NAG	903	65. 253 78. 817 12. 325 1. 00 29. 00 E 64. 947 79. 400 11. 066 1. 00 29. 62 E	C
ATOM	11983	C4	NAG	903	65. 814 79. 900 13. 248 1. 00 30. 83 E	0 C
	11984	04	NAG	903	67. 092 80. 316 12. 778 1. 00 31. 15 E	
ATOM ATOM	11985	C5	NAG	903	65. 929 79. 389 14. 690 1. 00 30. 71 E	0 C
ATOM	11986	05	NAG	903	64. 669 78. 842 15. 133 1. 00 30. 11 E	
ATOM	11987	C6	NAG	903	66. 276 80. 502 15. 659 1. 00 32. 26 E	0 C
ATOM	11988	06	NAG	903	65. 937 80. 144 16. 993 1. 00 35. 52 E	0
ATOM	11989	C1	NAG	904		
ATOM	11989	C2	NAG	904		C C
ATOM	11991	N2	NAG	904	58. 289 73. 099 -1. 475 1. 00 21. 59 E 58. 532 71. 758 -1. 961 1. 00 21. 40 E	N N
ATOM	11992	C7	NAG	904	58. 532 71. 758 -1. 961 1. 00 21. 40 E 58. 567 71. 523 -3. 267 1. 00 20. 76 E	C
ATOM	11993	07	NAG	904	58. 745 72. 412 -4. 104 1. 00 18. 55 E	0
ATOM	11994	C8	NAG	904	58. 371 70. 080 -3. 709 1. 00 20. 74 E	C
ATOM	11995	C3	NAG	904	59. 325 73. 441 -0. 417 1. 00 22. 32 E	C
ATOM	11996	03	NAG	904	60. 611 73. 413 -1. 009 1. 00 22. 81 E	0
ATOM	11997	C4	NAG	904	59. 022 74. 832 0. 129 1. 00 22. 85 E	C
ATOM	11998	04	NAG	904	59. 986 75. 217 1. 101 1. 00 24. 62 E	C 0
ATOM	11999	C5	NAG	904	57. 634 74. 781 0. 737 1. 00 22. 86 E	C
ATOM	12000	05	NAG	904	56. 672 74. 506 -0. 297 1. 00 21. 95 E	0
ATOM	12000	C6	NAG	904	57. 232 76. 083 1. 385 1. 00 24. 39 E	C
ATOM	12001	06	NAG	904	57. 196 77. 133 0. 430 1. 00 31. 81 E	0
ATOM	12002	C1	NAG	905	49. 743 85. 075 37. 084 1. 00 31. 93 E	C
ATOM	12003	C2	NAG	905	49. 010 86. 230 37. 756 1. 00 33. 35 E	C
I I I OIII	IDOUT	00	0	500	10. 010 00. 400 01. 100 1. 00 00. 00 E	U

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(Co	ntii	ıue	α

					FIC	G. 4-	2 4 6			(00
ATOM	12005	N2	NAG	905	47. 823	86. 586	37. 012	1.00 34.30	E	N
ATOM	12006	C7	NAG	905	46. 648	86. 099	37. 395	1.00 35.18	E	C
ATOM	12007	O7	NAG	905	46. 362	85. 888	38. 578	1.00 36.47	E	0
ATOM	12008	C8	NAG	905	45. 640	85. 786	36.303	1. 00 37. 15	E	C
ATOM	12009	C3	NAG	905	49. 951	87. 416	37.924	1. 00 33. 45	E	
ATOM	12010	03	NAG	905	49. 256	88. 512	38. 495	1.00 33.93	E	0
ATOM	12011	C4	NAG	905	51. 043	86. 945	38. 863	1.00 35.37	E	C
ATOM	12012	04	NAG	905	51.934	88. 009	39. 193	1.00 35.45	E	0
ATOM	12013	C5	NAG	905	51.794	85. 773	38. 215	1.00 34.39	E	C
ATOM	12014	05	NAG	905	50. 878	84. 684	37. 887	1.00 32.56	E	0
ATOM	12015	C6	NAG	905	52. 787	85. 212	39. 214	1.00 36.29	E	
ATOM	12016	06	NAG	905	52. 150	84. 936	40. 459	1.00 35.52	E	0
ATOM	12017	C1	NAG	906	128. 439	74. 792	56. 371	1.00 36.45	E	C
ATOM	12018	C2	NAG	906	127. 977	75. 856	55. 375	1.00 37.00	E	C
ATOM	12019	N2	NAG	906	126. 880	75. 335	54. 586	1.00 37.17	E	N
ATOM	12020	C7	NAG	906	125. 666	75. 871	54. 690	1.00 38.41	E	
ATOM	12021	07	NAG	906	125. 264	76. 427	55. 714	1.00 38.52	E	0
ATOM	12022	C8	NAG	906	124. 760	75. 782	53. 471	1.00 36.25	E	Č
ATOM	12023	C3	NAG	906	129. 133	76. 265	54. 465	1.00 38.66	E	C
ATOM	12024	03	NAG	906	128. 723	77. 334	53. 625	1.00 39.59	E	0
ATOM	12025	C4	NAG	906	130. 331	76. 704	55. 308	1.00 39.58	E	C
ATOM	12026	04	NAG	906	131. 439	76. 975	54. 460	1. 00 41. 48	Ë	0
ATOM	12027	C5	NAG	906	130. 699	75. 602	56. 312	1. 00 40. 24	E	C
ATOM ATOM	12028 12029	05 C6	NAG NAG	906 906	129. 556 131. 811	75. 268 76. 032	57. 133 57. 255	1.00 40.24 1.00 38.27 1.00 41.89	E E	0 C
ATOM ATOM	12030 12031	06 C1	NAG NAG	906 907	131. 906 126. 770	75. 162 72. 294	58. 378 25. 405	1.00 41.63 1.00 46.70 1.00 33.54	E	0
ATOM	12032	C2	NAG	907	127. 763	73. 454	25. 478	1.00 35.73	E	C
ATOM	12033	N2	NAG	907	127. 401	74. 367	26. 540	1.00 37.97	E	
ATOM ATOM	12034 12035	C7 07	NAG NAG	907 907	128. 139 128. 715	74. 400 73. 403	27.644	1.00 41.34	E E	N C
ATOM	12036	C8	NAG	907	128. 278	75. 739	28. 094	1.00 42.96	E	0
ATOM	12037	C3	NAG	907	127. 776		28. 352	1.00 42.60	E	C
ATOM	12038	03	NAG	907	128.692	74. 167	24. 126	1.00 36.63	E	C
ATOM	12039	C4	NAG	907		75. 253	24. 154	1.00 38.28	E	0
ATOM ATOM	12040 12041	04 C5	NAG NAG	907 907	128. 171 128. 191 127. 161	73. 148 73. 758 71. 995	23. 047 21. 763	1.00 35.89 1.00 35.82	E E	C 0
ATOM ATOM	12042 12043	05 C6	NAG NAG	907 907	127. 166 127. 444	71. 377 70. 913	23. 075 24. 380 22. 057	1. 00 35. 12 1. 00 32. 61	E E	C 0
ATOM ATOM	12044 12044 12045	06 C1	NAG NAG	907 908	128. 515 97. 567	70. 913 70. 083 64. 129	22. 478 12. 586	1. 00 36. 17 1. 00 38. 44	E	C 0
ATOM ATOM	12046 12047	C2 N2	NAG NAG	908 908	98. 226 98. 466	65. 101 66. 365	11. 602 12. 269	1. 00 33. 83 1. 00 36. 51 1. 00 40. 33	E E E	C C N
ATOM ATOM	12048 12049	C7 07	NAG NAG	908 908	99. 645 100. 703	66. 962 66. 434	12. 148 12. 500	1.00 40.33 1.00 43.03 1.00 45.77	E E	C
ATOM ATOM	12050 12051	C8 C3	NAG NAG	908 908	99. 655 97. 328	68. 349 65. 325	11. 529 10. 380	1.00 43.77 1.00 43.86 1.00 37.11	E E	C C
ATOM ATOM	12052 12053	03 C4	NAG NAG	908 908	98. 013 96. 945	66. 122 63. 975	9. 426 9. 760	1.00 37.11 1.00 37.35 1.00 36.97	E E	0 C
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					FIC	3. 4 -	247			(Continued)
ATOM	12054	04	NAG	908	96. 049	64. 165	8. 668	1.00 36.08	Е	0
ATOM	12055	C5	NAG	908	96. 291	63. 106	10.841	1.00 35.43	E	C
ATOM	12056	05	NAG	908	97. 215	62. 906	11. 930	1.00 33.34	E	0
ATOM	12057	C6	NAG	908	95.890	61. 735	10. 341	1.00 36.72	E	C
ATOM	12058	06	NAG	908	95. 085	61.057	11. 296	1.00 38.75	E	0
ATOM	12059	C1	NAG	909	106.501	80.407	11. 987	1.00 55.21	E	C
ATOM	12060	C2	NAG	909	105.627	81. 255	11.048	1.00 55.75	E	C
ATOM	12061	N2	NAG	909	105.631	82.658	11.427	1.00 55.80	E	N
ATOM	12062	C7	NAG	909	106.748	83. 259	11.828	1.00 56.83	E	C
ATOM	12063	07	NAG	909	107.685	83. 526	11.066	1.00 55.16	E	0
ATOM	12064	C8	NAG	909	106.838	83. 620	13. 305	1.00 56.25	E	C
ATOM	12065	C3	NAG	909	104. 195 103. 396	80. 724	11.087	1.00 56.36	E	C
ATOM	12066	03	NAG	909		81.452	10. 166	1.00 58.58	E	0
ATOM	12067	C4	NAG	909 909	104. 176 102. 855	79. 229 78. 716	10.744	1.00 56.19	E	C
ATOM ATOM	12068 12069	04 C5	NAG NAG	909	102. 833	78. 478	10.862 11.692	1.00 55.29 1.00 56.24	E E	0
ATOM	12009	05	NAG	909	105. 111	79. 028	11.600	1.00 56.65	E	C 0
ATOM	12071	C6	NAG	909	105. 230	76. 996	11. 381	1.00 57.38	E	C
ATOM	12072	06	NAG	909	106. 370	76. 423	12.010	1.00 55.01	E	0
ATOM	12073	C1	NAG	910	105. 213	38. 428	20.006	1.00 34.33	E	C
ATOM	12074	C2	NAG	910	106. 113	37. 293	19. 498	1.00 37.27	E	C
ATOM	12075	N2	NAG	910	107. 447	37. 789	19. 211	1.00 40.05	Ë	N
ATOM	12076	C7	NAG	910	108. 495	36. 984	19. 368	1.00 42.24	Ĕ	Č
ATOM	12077	07	NAG	910	109.013	36. 771	20.465	1.00 42.65	Ē	ŏ .
ATOM	12078	C8	NAG	910	109.047	36. 295	18. 126	1.00 42.65	Ë	Č
ATOM	12079	C3	NAG	910	105. 504	36.650	18. 245	1.00 37.60	Ē	č
ATOM	12080	03	NAG	910	106. 296	35. 547	17.831	1.00 38.44	Ĕ	ŏ
ATOM	12081	C4	NAG	910	104.084	36. 182	18.551	1.00 36.63	Ē	Č
ATOM	12082	04	NAG	910	103.489	35.616	17.388	1.00 37.52	E	0
ATOM	12083	C5	NAG	910	103. 274	37. 387	19.037	1.00 35.81	E	C
ATOM	12084	05	NAG	910	103.883	37.930	20. 229	1.00 34.96	E	0
ATOM	12085	C6	NAG	910	101.838	37.042	19.385	1.00 34.79	E	C
ATOM	12086	06		910	101.781	36.089	20. 437	1.00 34.77	E	0
TER	12087	_	NAG	910					E	
ATOM	12088	0	НОН	1	53. 435	80. 704	18. 172	1.00 10.60	W	0
ATOM	12089	0	НОН	2	57. 473	78. 703	26. 320	1.00 21.03	W	0
ATOM	12090	0	HOH	3	65.386	56.077	37. 040	1.00 7.09	W	0
ATOM	12091	0	HOH	4	56. 235	76. 520	22. 816	1.00 14.76	W	0
ATOM	12092	0	HOH	5	58. 127	60. 758	28.066	1.00 4.57	W	0
ATOM	12093	0	HOH	6	40.099	59.877	48. 410	1.00 16.00	W	0
ATOM ATOM	12094 12095	0	НОН	7	29. 796 38. 634	47. 323 67. 195	37. 410	1.00 24.76	W	0
ATOM	12095	0	НОН НОН	8 9	36. 034 41. 732	52. 103	51. 371 37. 673	1.00 22.65	W	0
ATOM	12097	0	нон НОН	10	79. 275	54. 159	21.409	1.00 13.34 1.00 15.53	W W	0
ATOM	12098	0	НОН	11	65. 287	66. 160	35. 128	1.00 13.33	W	0 0
ATOM	12099	ŏ	НОН	12	79. 267	49. 364	26. 780	1.00 14.00	Ÿ	0
ATOM	12100	ŏ	НОН	13	67. 989	56. 792	26. 833	1.00 14.00	Ÿ	0
ATOM	12101	Ŏ	НОН	14.	68. 995	70.138	19.815	1.00 12.98	Ÿ	0
ATOM	12102	0	HOH	15	59.193	63. 441	21. 787	1.00 5.68	Ÿ	ŏ

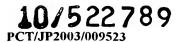
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					FIC	G. 4-	2 4 8			(Continued)
ATOM ATOM ATOM ATOM	12103 12104 12105 12106	0 0 0 0	HOH HOH HOH HOH	16 17 18 19	49. 896 48. 544 73. 938 36. 883	66. 700 53. 043 69. 817 69. 650	47. 886 50. 567 52. 424 29. 378	1.00 13.21 1.00 20.65 1.00 34.74 1.00 25.18	W W W	0 0 0 0
ATOM ATOM ATOM ATOM	12107 12108 12109 12110	0 0 0 0	HOH HOH HOH	20 21 22 23	50. 912 58. 369 62. 886 43. 777	61. 115 85. 282 63. 930 87. 394	48. 431 28. 107 21. 686 23. 730	1.00 18.77 1.00 27.06 1.00 29.16 1.00 9.96	W W W	0 0 0 0
ATOM ATOM ATOM	12111 12112 12113 12114	0 0 0 0	HOH HOH HOH	24 25 26 27	48. 078 36. 753 63. 225 35. 078	67. 109 80. 303 66. 634 54. 838	30. 405 31. 025 22. 568 52. 427	1.00 21.66 1.00 34.33 1.00 10.18 1.00 29.90	W W W	0 0 0 0
ATOM ATOM ATOM	12115 12116 12117 12118	0 0 0 0	HOH HOH HOH	28 29 30 31	57. 184 73. 677 76. 251 72. 985	80. 961 71. 484 57. 060 72. 092	23. 145 27. 824 34. 794 24. 987	1.00 17.51 1.00 34.92 1.00 28.05 1.00 14.46	W W W	0 0 0
ATOM ATOM ATOM ATOM ATOM	12119 12120 12121 12122 12123	0 0 0 0	НОН НОН НОН НОН НОН	32 33 34 35 36	61. 839 33. 787 47. 827 55. 562 31. 114	84. 543 63. 840 47. 441 56. 510 59. 222	25. 502 46. 551 47. 587 44. 904 42. 224	1.00 22.75 1.00 12.55 1.00 25.33 1.00 30.51 1.00 13.22	W W W W	0 0 0 0
ATOM ATOM ATOM ATOM	12124 12125 12126 12127	0 0 0 0	HOH HOH HOH	37 38 39 40	82. 143 41. 587 70. 447 23. 146	64. 199 70. 385 47. 056 49. 571	47. 510 33. 904 34. 998 32. 910	1.00 21.69 1.00 24.19 1.00 24.19 1.00 22.85	₩ ₩ ₩ ₩	0 0 0 0
ATOM ATOM ATOM ATOM	12128 12129 12130 12131	0 0 0 0	HOH HOH HOH	41 42 43 44	23. 427 74. 977 81. 171 70. 982	53. 516 48. 248 53. 457 61. 003	39. 573 21. 021 19. 457 21. 232	1.00 12.47 1.00 24.35 1.00 32.23 1.00 19.07	W W W	0 0 0 0
ATOM ATOM ATOM ATOM	12132 12133 12134 12135	0. 0 0	HOH HOH HOH	45 46 47 48	51. 713 75. 424 52. 251 37. 551	50. 325 58. 001 54. 978 51. 103	19. 619 59. 062 15. 598 23. 882	1.00 36.05 1.00 20.53 1.00 20.74 1.00 16.65	W W W	0 0 0
ATOM ATOM ATOM ATOM ATOM	12136 12137 12138 12139 12140	0 0 0 0	HOH HOH HOH HOH	49 50 51 52 53	31. 428 45. 546 71. 765 57. 328 72. 778	66. 281 72. 589 47. 337 68. 673 48. 947	21.097 -9.525 39.374 61.331 47.621	1. 00 18. 82 1. 00 19. 51 1. 00 16. 49 1. 00 26. 41 1. 00 17. 49	W W W W	0 0 0 0
ATOM ATOM ATOM ATOM	12141 12142 12143 12144	0 0 0 0	HOH HOH HOH HOH	54 55 56 57	30. 292 47. 165 25. 673 71. 617	82. 021 45. 427	10. 956 40. 043 43. 209 34. 752	1. 00 17. 45 1. 00 24. 56 1. 00 35. 52 1. 00 10. 79 1. 00 17. 19	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 0 0 0
ATOM ATOM ATOM ATOM	12145 12146 12147 12148	0 0 0 0	HOH HOH HOH HOH	58 59 60 61	46. 059 68. 766 52. 732 61. 782	55. 643 45. 985 70. 566 69. 597	2. 123 50. 017 0. 317 25. 094	1.00 19.51 1.00 22.18 1.00 32.17 1.00 13.27	W W W W	0 0 0 0
ATOM ATOM ATOM	12149 12150 12151	0 0 0	НОН НОН НОН	62 63 64	51. 352 48. 267 49. 536	79. 521 86. 907 54. 337	14. 538 16. 122 14. 938	1.00 17.25 1.00 21.54 1.00 22.27	W W	0 0 0

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									(Continued)
					FIG. 4	- 249			(Oomoniuou)
ATOM	12152	0	НОН	65	37. 711 84. 4	58 31.782	1.00 38.65	W	0
ATOM	12153	ŏ	НОН	66	41.832 62.4		1.00 23.50	W	Ŏ
ATOM	12154	ŏ	НОН	67	56. 514 63. 2		1.00 20.39	Ÿ	ŏ
ATOM	12155	Ŏ	НОН	68	48.166 60.4		1.00 37.55	Ÿ	ŏ
ATOM	12156	0	НОН	69	52.076 51.5		1.00 22.02	Ŵ	Õ
ATOM	12157	Ŏ	НОН	70	47.607 61.6		1.00 34.50	W	Ŏ
ATOM	12158	Ŏ	НОН	71	39.108 76.6		1.00 24.21	W	Ö
<b>ATOM</b>	12159	0	HOH	72	62. 894 85. 1		1.00 38.05	W	0
ATOM	12160	0	HOH	73	49.937 51.9		1.00 25.50	W	0
<b>ATOM</b>	12161	0	HOH	74	32.972 63.4		1.00 31.16	W	0
ATOM	12162	0	HOH	75	76.481 50.9	40 55.523	1.00 8.02	W	0
ATOM	12163	0	HOH	76	54. 751 68. 6	66 -3.038	1.00 19.33	W	0
ATOM	12164	0	HOH	77	69.797 76.8	51 37.550	1.00 38.44	W	0
ATOM	12165	0	HOH	78	60. 195 69. 7	93 56.043	1.00 27.75	W	0
ATOM	12166	0	HOH	79	68. 721 77. 7		1.00 14.61	W	0
ATOM	12167	0	HOH	80	76.538 41.0		1.00 24.17	W	0
ATOM	12168	0	HOH	81	27. 643 63. 80		1.00 20.70	W	0
ATOM	12169	0	НОН	<b>82</b>	42. 573 57. 63		1.00 19.56	W	0
ATOM	12170	0	HOH	83	51. 219 56. 13		1.00 41.31	W	0
ATOM	12171	0	HOH	84	64. 281 54. 29		1.00 15.83	W	0
ATOM	12172	0	НОН	85	48. 093 54. 0		1.00 38.41	W	0
ATOM	12173	0	НОН	86	37. 006 52. 23		1.00 23.83	W	0
ATOM	12174	0	НОН	87	44.149 74.94		1.00 17.55	W	0
ATOM	12175	0	HOH	88	72. 912 75. 09		1.00 25.98	·W	0
ATOM	12176	0	HOH	89	52. 329 67. 86		1.00 8.31	W	0
ATOM	12177	0	НОН	90	66. 266 74. 77		1.00 16.00	W	0
ATOM	12178	0	HOH	91	59. 283 77. 07		1.00 41.29	W	0
ATOM	12179	0	НОН	92	77. 526 46. 45		1.00 34.51	W	0
ATOM	12180 12181	0	НОН	93	59. 751 56. 67		1.00 24.40	M	0
ATOM ATOM	12181	0	HOH	94 05	43. 531 63. 24		1.00 22.64	W	0
ATOM	12182	0	НОН НОН	95 96	56. 677 73. 25 64. 366 82. 01		1.00 18.65	W	0
ATOM	12184	0	НОН	97	64. 366 82. 01 58. 839 62. 77		1.00 24.81	W W	0
ATOM	12185	0	НОН	98	52.478 72.15		1.00 11.00 1.00 13.58		0
ATOM	12186	Ö	НОН	99	59.860 59.38		1.00 13.38	W	0
ATOM	12187	0	НОН	100	64. 047 73. 18		1.00 20.00	W W	0 0
ATOM	12188	Ŏ	НОН	101	44. 369 74. 97		1.00 13.00	W	0
ATOM	12189	Ŏ	НОН	102	61.861 50.83		1.00 31.09	Ÿ	0
ATOM	12190	Ö	HOH	103	40. 708 73. 94		1.00 13.81	Ÿ	0
ATOM	12191	Ŏ	HOH	104	51. 853 81. 60		1.00 16.73	Ÿ	0
<b>ATOM</b>	12192	0	НОН	105	59.699 55.34		1.00 20.67	Ÿ	ŏ
<b>ATOM</b>	12193	0	HOH	106	45. 186 81. 56		1.00 13.89	Ÿ	ŏ
ATOM	12194	0	HOH	107	37. 516 59. 18		1.00 20.72	Ÿ	ŏ
ATOM	12195	0	HOH	108	22. 032 56. 44		1.00 30.26	Ÿ	Ö
ATOM	12196	0	HOH	109	65. 773 63. 94		1.00 15.82	W	Ŏ
ATOM	12197	0	HOH	110	45. 931 73. 79		1.00 25.56	Ÿ	Ö
ATOM	12198	0	HOH	111	29. 602 40. 89		1.00 25.93	W	0
ATOM	12199	0	НОН	112	19.080 57.31		1.00 20.07	W	0
ATOM	12200	0	HOH	113	61.355 50.29	6 11.653	1.00 20.49	W	0



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					T: I /	~ 1	250			(Continued)
					F I (	G. 4-	250			
ATOM	12201	0	НОН	114	41.491	58.601	0.047	1.00 42.91	W	0
ATOM	12202	0	HOH	115	64. 362	64.567	16. 259	1.00 24.97	W	0
ATOM	12203	0	HOH	116	43. 928	76. 242	2. 332	1.00 21.69	W	0
ATOM	12204	0	НОН	117	80. 703	69. 349	43.827	1.00 28.64	W	0
ATOM	12205	0	НОН	118	81.671	48. 368	20.456	1.00 15.16	W	0
ATOM	12206	0	НОН	119	59. 413	71.127	54.004	1.00 22.01	W	0
ATOM	12207	0	НОН	120	27. 474	69. 426	47. 288	1.00 26.74	W	0
ATOM	12208	0	HOH	121	69. 871	60. 279	33. 380	1.00 13.47	W	0
ATOM	12209	0	НОН	122	67. 879	38. 425	47. 297	1.00 25.68	W	0
ATOM	12210	0	HOH	123	41.866	62. 152	36. 306	1.00 27.91	W	0
ATOM	12211	0	HOH	124	82.055	50. 923	20. 718	1.00 23.09	W	0
ATOM	12212	0	HOH	125	38. 821	82.651	33. 998	1.00 14.04	W	0
ATOM	12213	0	HOH	126	64. 420	42. 195	31.710	1.00 28.88	W	0
ATOM	12214 12215	0	HOH	127	60. 713	36. 262 38. 041	43. 885	1.00 22.95	W	0
ATOM ATOM	12216	0	HOH HOH	128 129	63. 095 36. 718	65. 633	44. 744 50. 633	1. 00 26. 42 1. 00 38. 12	W W	0 .
ATOM	12217	0	HOH	130	55. 575	80. 086	20. 196	1. 00 36. 12	W	0 0 ·
ATOM	12218	0	НОН	131	41. 981	65. 129	15. 577	1.00 23.62	W	0
ATOM	12219	Ö	НОН	132	48. 067	75. 632	53. 563	1.00 25.02	W	0
ATOM	12220	ŏ	НОН	133	75.617	59. 792	32. 116	1.00 35.58	W	0
ATOM	12221	ŏ	НОН	134	73. 522	67. 486	30. 484	1.00 21.07	Ÿ	Ö
ATOM	12222	Ŏ	НОН	135	65. 965	81.671	30. 091	1. 00 41. 74	Ÿ	ŏ
ATOM	12223	Ō	НОН	136	41.663	53. 300	13. 574	1.00 39.95	Ÿ	ŏ
ATOM	12224	0	НОН	137	42.885	39.029	29.960	1.00 29.57	Ÿ	Ö
ATOM	12225	0	HOH	138	67.606	56.683	24. 253	1.00 37.19	W	Ö
ATOM	12226	0	HOH	139	138. 150	54. 591	37.133	1.00 19.60	W	0
ATOM	12227	0	HOH	140	76.640	48.505	51.547	1.00 22.87	W	. 0
ATOM	12228	0	HOH	141	105. 346	35.319	45.478	1.00 6.28	W	0
ATOM	12229	0	HOH	142	108.946	33.058	43.850	1.00 17.18	W	0
ATOM	12230	0	HOH	143	101.384	50. 291	32. 321	1.00 12.25	W	0
ATOM	12231	0	НОН	144	83. 691	56.732	33.886	1.00 18.52	W	0
ATOM	12232	0	НОН	145	96. 721	59.108	34. 335	1.00 14.59	W	0
ATOM	12233	0	HOH	146	122. 411	66. 436	57.099	1.00 19.53	W	0
ATOM		0	НОН	147	107. 303		48. 678	1.00 12.12	W	0
ATOM	12235	0	HOH	148	102. 207			1.00 18.02	W	0
ATOM	12236	0	HOH	149	104. 534	49. 338	27. 730	1.00 13.93	A	0
ATOM	12237	0	HOH	150	113. 995	67. 497	30. 740	1.00 26.00	W	0
ATOM	12238	0	HOH	151	115. 903	54. 147	45. 005	1.00 10.46	Ä	0
ATOM	12239	0	НОН	152	114. 104		9. 401	1.00 27.03	W	0
ATOM ATOM	12240 12241	0	НОН НОН	153 154	86. 360 97. 554	55.414	40. 305	1.00 14.32	W	0
ATOM	12242	0	НОН	155	119. 087	40. 670 37. 761	45. 200 27. 531	1.00 18.35	W	0
ATOM	12242	0.		156	87. 809	62.914	36. 962	1.00 31.02 1.00 26.29	W W	0
ATOM	12244	0	НОН	157	83. 356	65. 229	44. 012	1.00 20.29	Ϋ́	0
ATOM	12245	0	НОН	158	98. 650	46. 435	54. 377	1.00 37.02	W	0
ATOM	12246	Ö	НОН	159	99. 982	40. 104	43. 504	1.00 20.11	Ϋ́	0
ATOM	12247	ŏ	НОН	160	122.550	42. 243	44. 636	1.00 11.71	Ÿ	0
ATOM		Ŏ	НОН	161						
	14440	U	HOH	101	101.404	56.669	35. 498	1.00 35.54	W	0

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					FIC	G. 4-	251			(00
ATOM	12250	0	НОН	163	95. 169	58. 602	25. 005	1.00 10.78	W	0
ATOM	12251	0	HOH	164	115. 235	34.630	45. 444	1.00 26.24	W	0
ATOM	12252	0	НОН	165	106.826	53.003	55. 571	1.00 20.62	W	0
ATOM	12253	0	НОН	166	84. 875	59. 299	19.482	1.00 36.24	W	0
ATOM	12254	0	НОН	167	113. 139	50.670	46.942	1.00 20.56	W	0
ATOM	12255	0	HOH	168	95. 042	48. 091	37. 270	1.00 21.34	W	0
ATOM	12256	0	HOH	169	76. 879	72. 537	31.569	1.00 23.37	W	0
ATOM	12257	0	НОН	170	114. 148	58. 106	48.086	1.00 18.43	W	0
ATOM ATOM	12258 12259	0 0	HOH HOH	171 172	89. 134 104. 484	33.853	32.584	1.00 22.93	W	0
ATOM	12260	0	НОН	173	97. 990	32. 367 56. 523	28. 628 56. 950	1.00 23.01 1.00 35.07	W	0
ATOM	12261	0	НОН	174	108. 093	59.050	11.178	1.00 33.07	₩ ₩	0
ATOM	12262	ŏ	НОН	175	95. 968	47. 759	51.786	1.00 23.37	"W	0
ATOM	12263	ŏ	НОН	176	93. 653	58. 234	55. 683	1.00 19.54	Ÿ	ő
ATOM	12264	Ŏ	НОН	177	117. 454	64.613	44.832	1.00 25.55	Ÿ	ő
ATOM	12265	Ö	НОН	178	96. 322	67. 790	27. 707	1.00 29.36	Ÿ	ő
<b>ATOM</b>	12266	0	HOH	179	80. 831	40.760	23.388	1.00 28.01	Ÿ	ŏ
ATOM	12267	0	HOH	180	109. 521	38.188	50.278	1.00 16.30	W	0
ATOM	12268	0	HOH	181	88. 081	40. 289	29.465	1.00 7.47	W	0
ATOM	12269	0	HOH	182	112. 135	42.102	29.409	1.00 28.14	₩	0
ATOM	12270	0	НОН	183	110.546	33. 279	45.877	1.00 22.55	W	0
ATOM	12271	0	НОН	184	101.361	45.858	44.078	1.00 28.83	W	0
ATOM	12272	0	НОН	185	126. 633	38. 023	29. 778	1.00 31.97	W	0
ATOM	12273	0	HOH .	186	122. 283	37. 257	34. 566	1.00 18.77	W	0
ATOM	12274	0	НОН	187	99. 753	38. 623	40.032	1.00 18.28	W	0
ATOM ATOM	12275 12276	0	НОН НОН	188 189	122. 547	56. 954	36.341	1.00 20.05	M	0
ATOM	12277	0	нон НОН	190	68. 079 134. 519	78. 219 46. 667	33.025	1.00 38.49	W	0
ATOM	12278	0	НОН	191	110. 945	39. 354	45. 989 35. 865	1.00 34.45 1.00 10.27	W	0
ATOM	12279	Ŏ	НОН	192	118. 982	51.843	57. 881	1.00 10.27	W	0 0
ATOM	12280	ŏ	НОН	193	123. 824	35. 631	32. 830	1.00 19.19	w	0
ATOM	12281	ŏ	НОН	194	100. 524	45. 123	38. 393	1.00 26.68	Ÿ	0
ATOM	12282	Ŏ	НОН	195	122. 815	60.696		1.00 24.15	Ÿ	ő
<b>ATOM</b>	12283	0	HOH	196	96. 208	59.856	31.652	1.00 12.71	Ÿ	ŏ
ATOM	12284	0	HOH	197	80.023	56.246	54.587	1.00 10.61	W	Ŏ
ATOM	12285	0	HOH	198	109. 915	41.219	37.675	1.00 19.28	W	0
ATOM	12286	0	НОН	199	96. 990	75.649	27. 926	1.00 9.03	W	0
ATOM	12287	0	HOH	200	103. 494	44. 373	34.046	1.00 8.20	W	0
ATOM	12288	0	НОН	201	97. 045	44.873	53. 124	1.00 15.97	W	0
ATOM	12289	0	НОН	202	109. 135	58. 341	13. 499	1.00 22.83	W	0
ATOM	12290	0	НОН	203	96. 465	39. 089	47.689	1.00 12.68	W	0
ATOM	12291 12292	0	HOH	204	99.669	54. 200	16.885	1.00 13.83	W	0
ATOM ATOM	12292	0 0	НОН НОН	205	85.350	34. 351	33. 261	1.00 15.83	Ŋ	0
ATOM	12293	0	HOH	206 207	106. 252 102. 838	38. 178 63. 592	46. 273 15. 944	1.00 17.78 1.00 23.96	W	0
ATOM	12295	0	НОН	208	114. 173	52. 027	13. 944 44. 587	1.00 23.96	W	0 0
ATOM	12296	ŏ	НОН	209	114. 209	49. 450	36. 803	1.00 12.10	W	0
ATOM	12297	ŏ	НОН	210	78. 079	55. 141	59.990	1.00 13.70	Ÿ	0
ATOM	12298	Ŏ	НОН	211	95.004	41.032	14. 678	1.00 29.66	Ϋ́	0
-							2 -: 0.0	VV HV VV	"	3

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						(Continued)
					FIG. 4-252	
ATOM	12299	0	НОН	212	113.170 36.816 43.347 1.00 21.90 W	0
ATOM ATOM	12300 12301	0	НОН НОН	213 214	77. 770 71. 277 45. 572 1. 00 31. 73 W 128. 636 66. 746 61. 783 1. 00 37. 87 W	0 0
ATOM	12301	ő	НОН	215	128. 566 42. 261 18. 644 1. 00 26. 65 W	0
ATOM	12303	Ŏ	НОН	216	135.349 43.830 34.280 1.00 24.69 W	ŏ
ATOM	12304	Ŏ	НОН	217	85. 640 67. 686 27. 706 1. 00 32. 33 W	Ŏ
ATOM	12305	0	HOH	218	93.669 46.427 45.506 1.00 24.39 W	0
ATOM	12306	0	HOH	219	117.990 67.819 59.317 1.00 20.28 W	0
ATOM	12307	0	HOH	220	79.954 55.009 62.309 1.00 19.13 W	0
ATOM	12308	0	НОН	221	117. 228 62. 083 29. 483 1. 00 29. 50 W	0
ATOM	12309	0	НОН	222	105.505 51.938 31.912 1.00 35.19 W	0
ATOM	12310	0	НОН	223	106. 835 57. 215 14. 677 1. 00 21. 77 W	0
ATOM	12311	0	НОН	224	107. 489 60. 380 64. 395 1. 00 24. 53 W	0
ATOM	12312	0	HOH	225	79. 753 74. 355 37. 799 1. 00 35. 35 W	0
ATOM ATOM	12313 12314	0	HOH HOH	$\begin{array}{c} 226 \\ 227 \end{array}$	116.807 64.679 29.466 1.00 24.83 W 87.239 52.355 64.706 1.00 21.19 W	0
ATOM	12314	0	HOH	228	87. 239 52. 355 64. 706 1. 00 21. 19 W 81. 916 67. 988 41. 878 1. 00 14. 54 W	0
ATOM	12316	0	НОН	229	106. 295 62. 226 36. 826 1. 00 26. 06 W	0
ATOM	12317	ő	НОН	230	78. 057 49. 553 53. 991 1. 00 15. 40 W	0
ATOM	12318	Ŏ	НОН	231	99. 797 47. 673 22. 572 1. 00 18. 00 W	Ö
ATOM	12319	0	НОН	232	80. 925 62. 495 37. 326 1. 00 9. 28 W	ŏ
ATOM	12320	0	HOH	233	93. 378 45. 857 52. 934 1. 00 12. 13 W	0
ATOM	12321	0	HOH	234	132.069 46.877 33.339 1.00 20.97 W	0
ATOM	12322	0	HOH	235	93. 916 62. 211 25. 521 1. 00 13. 10 W	0
ATOM	12323	0	HOH	236	93. 249 60. 882 37. 895 1. 00 26. 19 W	0
ATOM	12324	0	НОН	237	100. 380 52. 169 18. 636 1. 00 7. 98 W	0
ATOM	12325 12326	0	НОН	238	82. 096 55. 169 32. 059 1. 00 10. 45 W	0
ATOM ATOM	12327	0	HOH HOH	239 240	94. 471 48. 635 53. 699 1. 00 13. 21 W 87. 009 55. 227 64. 894 1. 00 24. 88 W	0
ATOM	12328	0	НОН	241	87.009 55.227 64.894 1.00 24.88 W 95.857 52.760 15.499 1.00 29.83 W	0
ATOM	12329	ŏ	НОН	242	117. 688 49. 829 33. 274 1. 00 13. 15	0
ATOM	12330	Õ	НОН	243	103. 675 56. 528 15. 602 1. 00 19. 17	0
ATOM	12331	0	НОН	244	99. 571 37. 563 42. 732 1. 00 22. 69 W	ŏ
ATOM	12332	0	HOH	245	100.413 48.087 60.147 1.00 23.84 W	Ö
ATOM	12333	0	HOH	246	117. 307 73. 448 16. 262 1. 00 29. 45 W	0
ATOM	12334	0	НОН	247	124. 287 57. 265 34. 284 1. 00 15. 90 W	0
ATOM	12335	0	НОН	248	124.770 56.884 15.714 1.00 26.61 W	0
ATOM	12336	0	HOH	249	133.182 57.356 30.667 1.00 8.25 W	0
ATOM ATOM	12337 $12338$	0	HOH HOH	250 251	106. 948 46. 114 47. 228 1. 00 18. 40 W	0
ATOM	12339	0	НОН	252	101.409 54.086 55.370 1.00 24.76 W 116.022 62.795 46.555 1.00 17.19 W	0
ATOM	12340	Ö	НОН	253	116.022 62.795 46.555 1.00 17.19 W 95.637 65.687 28.739 1.00 22.07 W	0
ATOM	12341	ő	НОН	254	89. 440 32. 347 36. 665 1. 00 21. 89 W	0 0
ATOM	12342	ŏ	НОН	255	86. 628 29. 295 53. 611 1.00 28. 08	0
ATOM	12343	ŏ	НОН	256	102.111 48.926 69.771 1.00 28.02 W	0
ATOM	12344	0	HOH	257	117.835 65.790 61.089 1.00 30.23 W	ŏ
ATOM	12345	0	НОН		. 105.286 61.859 63.757 1.00 33.92 W	0
ATOM	12346	0	HOH	259	86.743 64.218 34.930 1.00 28.91 W	0
ATOM	12347	0	НОН	260	105.249 47.160 40.635 1.00 20.28 W	0

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					FIC	G. 4-	253			(Continued)
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12348 12349 12350 12351 12352 12353 12354 12355 12356 12357	0 0 0 0 0 0 0	НОН НОН НОН НОН НОН НОН НОН НОН	261 262 263 264 265 266 267 268 269 270	125.748 73.839 92.355 102.237 111.596 76.203 95.406 71.413 127.938 122.216	77. 301 74. 279 54. 248 61. 200 65. 302 36. 588 54. 983 36. 734 49. 749 58. 021	50. 793 32. 315 49. 336 14. 237 59. 180 32. 586 52. 304 46. 233 55. 356 31. 710	1.00 32.51 1.00 30.75 1.00 32.87 1.00 31.77 1.00 14.35 1.00 25.41 1.00 31.62 1.00 28.42 1.00 31.01 1.00 35.14	W W W W W W W	0 0 0 0 0 0 0
ATOM ATOM ATOM TER END	12358 12359 12360 12361	0 0 0	HOH HOH HOH HOH	271 272 273 273	94. 659 77. 118 112. 752	59. 753 34. 975 32. 790	40. 284 51. 599 41. 771	1.00 27.37 1.00 37.45 1.00 30.32	W W W W	0 0 0